

# Manufacturers Record

## Exponent of America



\$6.50 per Year.  
Single Copy, 20 Cents.

Baltimore, Md.  
DECEMBER 18, 1924

### Opponents of Youth Destruction Should Be at Work.

Governor Peay of Tennessee is quoted as being heartily in favor of the Child Labor Amendment and of having written a letter in which he said:

"I am familiar with the usual objections urged to this amendment and they have not impressed me. I am glad to say that I personally favor the adoption of this amendment and promise to aid as I properly can in its ratification in this state."

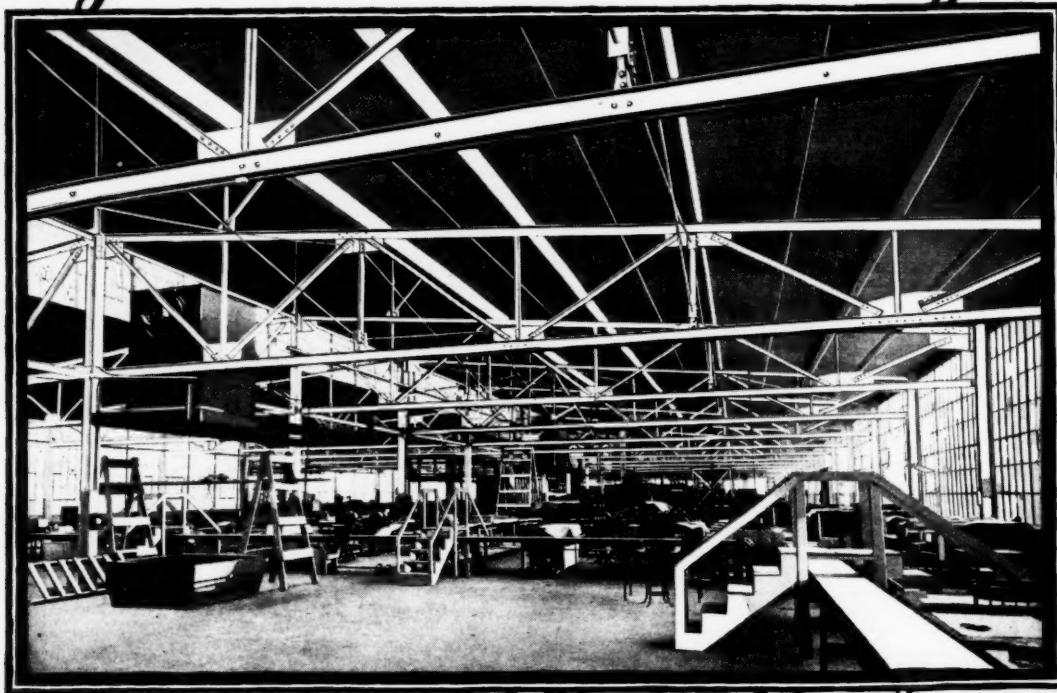
We wonder if Governor Peay has really seriously studied the Child Labor Amendment, or if, like many others, he is in favor of the idea simply on the humanitarian ground that it means the elimination from factories and mines of immature children. Governor Peay is supposed to be in favor of states' rights. He is likewise supposed to be in favor of giving young men before they have reached the age of 18 the right to labor on the farms where they may be living, or, in other words, without having them tied down to complete idleness under the domination largely of a lot of maiden ladies in control of the child labor bureaus in Washington.

The influences back of this Child Labor Amendment are socialistic and bolshevistic. The scheme was originally advanced years ago by Massachusetts cotton-mill people for the express purpose of halting the development of Southern cotton mills. At that time it was purely a selfish scheme in order to prevent the cotton-mill interests of the South from competing with the mills of New England, and New England cotton-mill people openly advocated a Child Labor Amendment of this kind for that express purpose, but we do not think that any of them ever dared to suggest a limitation up to 18 years of age on work in factories or on farms. Gradually year by year the project has been pushed by the bolshevistic element which is abroad in this land, and which if it had its way would completely break down all family life and absolutely control the education and the life of every boy and girl in the land up to 18 years of age, and by that time under such domination a large part of them would be unfitted for work, untrained for any occupation, and filled with the thought that the world owed them a living, and if it did not come to them on a silver spoon they would go out and rob and murder, whenever it suited their convenience, seeking to live by their wits rather than by honest labor.

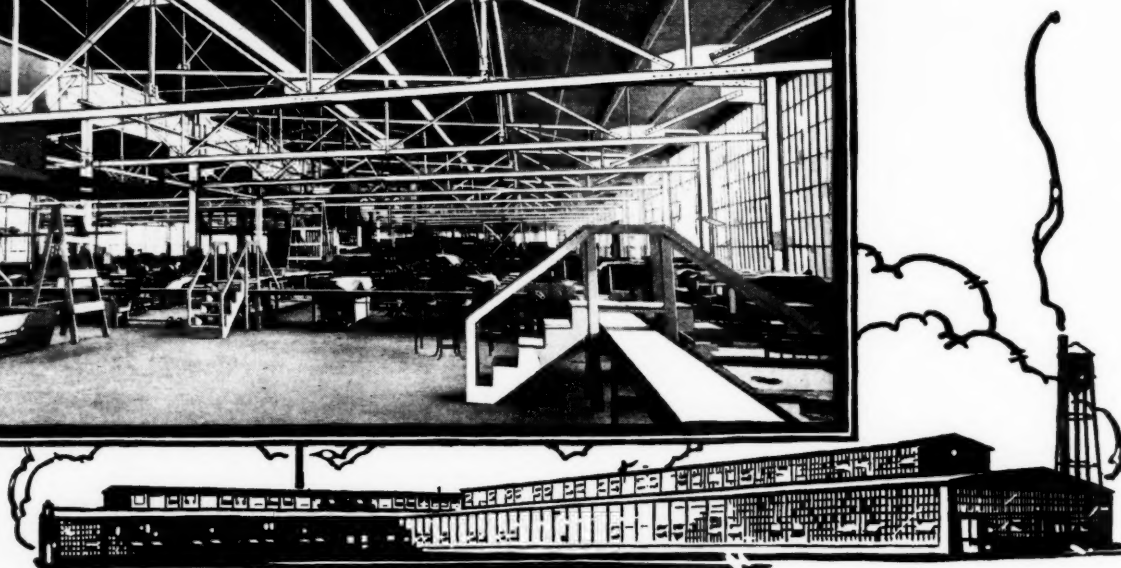
The letter of Governor Peay and the activity of some women in Tennessee in behalf of this Child Labor Amendment should awaken to a knowledge of the seriousness of the situation every man and woman in the country, who, realizing the danger of that amendment to our national life, should be up and at work. If the amendment should be passed, it would be because those who are opposed to it simply idly sit down and take no vigorous part in a campaign against it, but trust to others to do the work in which they should be engaged.

Inasmuch as many women and men are actively at work in behalf of this amendment, those who are opposed to it must be equally active in their fight against it.

# Big Business Builds The Ferguson Way



The Ferguson-built plant of the Kardex Company, Tonawanda, N. Y.



## Do You Realize What H. K. Ferguson Can Do for You?

**W**HEN Ferguson does your building you deal throughout with one concern. You sign but one contract. You pay but one profit.

No individual architect, engineer or contractors. The H. K. Ferguson Company, handles the work from the first draft of the plans to the last step in the completed structure.

Before you build, you call in a Ferguson executive. You discuss with him the purpose of the building—its requirements—its cost—its relation to the remainder of your plant. This conference costs you nothing. It involves no obligation.

From this meeting Ferguson's preliminary plans and estimates are evolved to meet your particular requirements. When these are acceptable to you, Ferguson's finished plans and estimates follow. To them Ferguson contributes his thorough knowledge of plant problems gained from building for many of America's greatest industries.

Before your building is actually started, Ferguson gives you a binding guarantee covering design, construction work, delivery date and total cost.

The nearest approach to The Ferguson Way is the plant construction organizations maintained by a few unusually large corporations—who are able to carry out their own building programs. There's the same direct contact and responsibility—the same employment of high grade architectural, engineering and construction specialists—the same understanding of the Owner's problem.

No matter where you are located, or what type of factory you require, you can save time and money by building the Ferguson Way. The Ferguson proposition will be furnished to any responsible executive without obligation.

### THE H. K. FERGUSON COMPANY

Cleveland Office: 4900 Euclid Bldg.; Phone: Randolph 6854

New York Office: 25 W. 43rd St.; Phone: Vanderbilt 4526

Tokio Office: Imperial Hotel, Tokio, Japan

# Ferguson

## GUARANTEED BUILDINGS



# Manufacturers Record

Exponent of America

## CONTENTS



Opponents of Youth Destruction Should Be at Work.....Cover Page

### EDITORIALS

|  |    |
|--|----|
| South Returning to Original Democratic Policy of Protection.....     | 59 |
| Stone Mountain—A National Monument.....                              | 60 |
| James B. Duke Sets an Inspiring Example.....                         | 61 |
| Science and the Average Man.....                                     | 61 |
| An Arraignment of American Parents.....                              | 62 |
| Air-Mail Service for the South.....                                  | 62 |
| A Letter from Mr. Sirrine—Southern Exposition to Be Held in May..... | 63 |
| Wonderful Growth of Thrift and Savings.....                          | 63 |
| Government Utilities Ownership Abroad.....                           | 64 |
| The Mine Workers Seem Obtuse.....                                    | 64 |

### NEWS ARTICLES

|  |    |
|--|----|
| Mr. Duke's Wonderful Gift.....By Wade H. Harris                              | 65 |
| National Park in the South.....  | 66 |
| Seaboard Air Line's Extension Almost Ready in Florida.....                   | 67 |
| Power Show at Grand Central Palace, New York.....By Richard W. Edmonds       | 70 |
| Russia as Seen by a Trained Investigator.....                                | 71 |
| Two Important Principles of Industrial Location Work....By H. Findlay French | 73 |
| Quality Dairy Standards Sought for Southern States.....By Craddock Goins     | 75 |
| Construction Soon on Big Electric Generating Plant.....By E. B. Lee          | 76 |
| What Is the Federal Water-Power Act.....By Dr. Henry M. Payne                | 77 |
| Rivers and Harbors Congress Demands Legislation.....                         | 80 |

### DEPARTMENTS

|                                      |    |  |     |
|--------------------------------------|----|--|-----|
| News and Views from Our Readers..... | 81 | Mechanical .....                         | 90  |
| The Iron and Steel Situation.....    | 82 | Construction .....                       | 91  |
| Railroads .....                      | 83 | Machinery, Proposals and Supplies Wanted | 115 |
| Textile .....                        | 86 | New Securities .....                     | 118 |
| Good Roads and Streets.....          | 88 | Trade Literature.....                    | 120 |
| Lumber and Building Materials.....   | 89 | Industrial News of Interest.....         | 122 |

PUBLISHED EVERY THURSDAY BY THE  
MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, corner Commerce and Water Sts., Baltimore, Maryland.  
RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;  
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer

RICHARD H. EDMONDS, Editor.

BRANCH OFFICES:  
CHICAGO, 11 So. La Salle St. NEW YORK, 901 Singer Bldg.  
CINCINNATI, 923 Union Trust Bldg.

#### SUBSCRIPTION RATES:

\$6.50 a year (in advance); six months, \$3.50; three months, \$2 to United States, Mexico, Cuba, Porto Rico, Hawaii and the Philippines. For Canada add postage \$2 a year. For other foreign countries add postage \$5.50 a year. Back numbers if available and not over one month old, 20 cents each. From one month to six months old, 50 cents each; over six months old, \$1 each. In ordering change of address, give old as well as new address.

MEMBER ASSOCIATED BUSINESS PAPERS, INC., AND AUDIT BUREAU OF CIRCULATION.

## NORTHROP LOOMS

Trade-Mark, Reg. U. S. Pat. Off.

Make better goods and more of them with less than half the labor cost of weaving

**DRAPER CORPORATION**

HOPEDALE MASSACHUSETTS

Copyright 1917 by Draper Corporation

## Yellow Strand WIRE ROPE

is in its element wherever there is extra heavy hoisting to be done.

Send for Catalog

**BRODERICK & BASCOM ROPE CO.**

ST. LOUIS

New York

Seattle



F-338

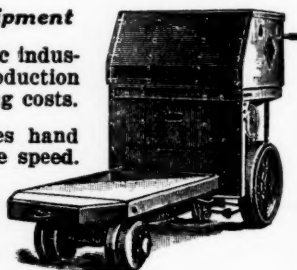
## ELWELL-PARKER

*Industrial Haulage Equipment*

Over twenty types of electric industrial tractors to speed up production and reduce material handling costs.

Handles on average 8 times hand trucking load at 3 times the speed.

Consult our engineers regarding labor saving problems.



CATALOG 1209

**THE ELWELL-PARKER ELECTRIC CO., CLEVELAND, O.**

*"Pioneer Builders Electric Industrial Trucks"*

## HERCULES (Red Strand) WIRE ROPE

FOR EFFICIENT LOGGING

The constant ability of HERCULES (Red-Strand) Wire Rope to handle logs economically has been proven by its long service record. The men who actually use it are its strong boosters.

Made Only By

**A. LESCHEN & SONS ROPE COMPANY**

ST. LOUIS, MO

New York

Chicago

Denver

San Francisco



## WEDGE ROPE SOCKET



Pays for itself the first time you have to resocket a rope.

*Write for Bulletins.*

**BUCYRUS COMPANY**

SPECIALTY DEPARTMENT

South Milwaukee, Wisconsin

617

## IRON WIRE STEEL



FOR ALL PURPOSES AND ALL FINISHES

High quality guaranteed. Sizes No. 5 to No. 40 W & M gauge.

Straightened and Cut Wire.

Welding Wire.

Special quality Stapling and Box Binding Wire.

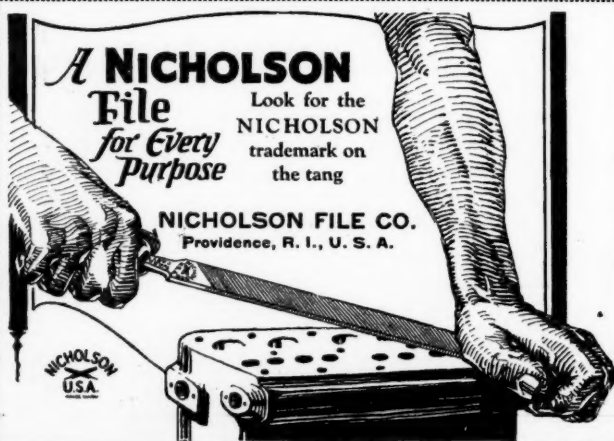
**SENECA WIRE & MFG. CO.**

FOSTORIA, OHIO

*A NICHOLSON File for Every Purpose*

Look for the NICHOLSON trademark on the tang

**NICHOLSON FILE CO.**  
Providence, R. I., U. S. A.



## PENNSYLVANIA "SOLID" WIRE GLASS

transmits pure daylight and reduces Insurance Rate.

### ACTINIC GLASS

eliminates eye strain, color fading and fabric deterioration.

### CORRUGATED WIRE GLASS

for Roofs, Skylights, Sidewalls, Canopies, Area Coverings.

Send for Illustrated Catalog

**Pennsylvania Wire Glass Company**  
PENNSYLVANIA BLDG. PHILADELPHIA, PA.



# Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. LXXXVI No. 25  
Weekly.

BALTIMORE, DECEMBER 18, 1924.

{ Single Copies, 20 Cents.  
\$6.50 a Year.

## The South Returning to the Original Democratic Policy of Protection.

UNDER the impetus of a straightforward educational campaign, unconfused by politics, the South now may be well described as turning from its mistaken policy of free trade, or tariff for revenue only, to the protective tariff as first instituted by Jefferson and Madison and later supported by Andrew Jackson. This change of heart is not fickle desertion from the old love to a new, but rather the resumption of an old devotion which had been interrupted by a foolish flirtation.

The pendulum swings. In 1789 the Democratic party, as exemplified by Jefferson and Madison, advocated and introduced a protective tariff—avowedly a *protective* tariff; about 1816 the South, always the heart of the Democratic party, moved by cheap cotton-production, turned to free trade; in 1922 one saw 37 per cent of the Democratic Senators in Congress voting for heavy increase in some duties, 49 per cent voting against reducing such duties and 11 per cent voting for the passage of a protective-tariff bill.

Through the educational campaign now conducted by such sterling citizens and loyal Democrats as John H. Kirby of Houston, Texas; G. T. McElderry, president of the Alabama Farmers' Union; Frank Rickert, representing the rice industry; E. A. Burguières, speaking for American sugar; W. D. Haas, president of the Louisiana Bankers' Association; Louis D. Dickerson of Mississippi; Harry D. Wilson, commissioner of agriculture of Louisiana; William Polk, R. H. Polack and other prominent men, it now is really not too much to hope that the citizenry of the South in general will realize that "the tariff" is not a partisan political issue, but that a protective tariff is a national necessity.

"Time is proving that the tariff is an economic and not a partisan question," says Representative Ladislav Lazaro of the Seventh Congressional district of Louisiana, embracing the traditional "solid" parishes of Acadia, Allen, Beauregard, Calcasieu, Cameron, Evangeline, Jefferson Davis and St. Landry.

"So far as our own local products are concerned, they must be protected in order to provide a market for them; if not, it means ruin to a large part of our country people, and consequently every Democrat in this state and in this section of the country should vote for the tariff," adds Representative J. Zach Spearing of New Orleans, representing the urban voters of Louisiana.

Especially impressive and convincing are the words of Mr. Kirby in an address before the annual convention of the Southern Tariff Association at New Orleans last October; he began thus:

"When we started the work of the Southern Tariff Association, the agricultural masses of the South were in the slough of despair; the door of hope had been closed to them because there was no market anywhere for their commodities. I came into the work at this time, thinking I was

a free-trader, but soon found out that everything we raised was put on the free list of my party. I accepted your presidency in 1920, without having any personal interest in what was proposed to be done but out of consideration for the public welfare; I wanted to help, because I knew that our country must, especially in this age, push forward.

"In agriculture, we were being discriminated against under the false philosophy known as the doctrine of free raw materials. As a free-trader, or low-tariff man, I thought the lower the tariff the greater the earning power of our country. I had not been in the work a year, however, when I saw that I was wrong.

"I am prepared to say, from a close study of the subject, that there has never been a time in the history of our Government when the world was at peace and when we had a low tariff that we had anything but hard times and distress.

"After discussion and study of the subject, I realized that the tariff was not a wicked device invented by the wicked Republicans for the purpose of despoiling the South, as I had previously thought. I found, to my amazement, that the very first act of the first Congress of the United States was a tariff law, and passed for the purpose of protection. The necessity for such a law was well understood by men like Jefferson, Madison and Hamilton.

"For a long time the policy of protection was Democratic doctrine.

"Fifty years later they changed to what they believed to be the best for the South, where cotton raising was the principal industry—cotton raising with slave labor that did not need protection from any source. They believed that negro slavery was a permanent part of the industrial system of the South and would stay for ever. After 1808 there were no more slaves imported into America; the only increase in the slave population was among the slaves already here. Slaves were more valuable after the invention of the cotton gin."

Turning then to the Fordney-McCumber tariff law, enacted in 1922—a strictly protective tariff measure—Mr. Kirby cited the Democratic support accorded the bill, and continued:

"That law was passed without any particular thought of party or section. It was evident from conditions we faced that the whole nation stood in need of protecting safeguards and that we had to have them to save our industries.

"We in the South were particularly distressed because of the dumping of vegetable oils upon us from the Orient, which displaced cottonseed and peanuts and destroyed our markets for these important products.

"But that Congress, the Sixty-seventh, which enacted the present tariff law, would not have given us that measure of protection so essential had it not been for the Southern Tariff Association and the persistent fight it carried on to the end. The soap makers fought us upon every bit of

fighting ground; they were thoroughly organized and stubbornly contested every point. \* \* \* A 'joker' was put into the bill to this effect: That any vegetable oils imported into this country to be used in the manufacture of non-edible commodities should have the tariff levy refunded. That was precisely the same as free trade for us, and we went in full strength to Washington to save our cause. A motion to strike out the 'joker' was carried because every Senator from the South, except one, either voted for it or left the chamber. We could not have received the measure of protection that was given to the cotton farmer in this law had it not been for the help of these Southern Senators.

"Therefore, you see the importance of the work ahead and the need of pressing our fight until it is established among Southern people that the policy of protection is of Democratic origin and that it is best suited to our economic requirements. We can, and eventually will, force the conclusion that the tariff is not a partisan political question."

Of the partisan affiliation of Mr. Kirby and virtually all of his auditors there could be no question, for he continued:

"We should be able to vote our ticket—the Democratic ticket—without feeling that the party's position on this important question will bring distress to our people. I do not wish to aid in disrupting the great party to which most of us owe allegiance. But, I do want to see the leading minds in it recognize that the tariff is a purely economic question of protection, essential if they are to compete in their own markets against foreigners who, without protection, can undersell them because of the lower living standards of the labor with which they produce."

Right there is the very heart—the very core—of the alternative: Shall American standards of income and living be maintained through a protective tariff; or, shall they be razed to the ground level of poverty-stricken Europe, or, even worse, of the pauper Orient? Under the American protective tariff, American working men and women in every line of activity receive the highest pay ever known to the world, and live in a comfort and near-luxury never before known in the history of civilization. Under free trade, or a tariff for revenue only, as American experience invariably has proved, wages fall to pauper levels, unemployment develops and spreads, soup kitchens and bread lines become national institutions, and misery is profound and nation-wide. As Mr. Kirby well says in his handbook, "The Tariff":

"No protective-tariff Administration, with that policy in effect, ever turned over the Government to its successor with want on every side. But, such was the condition when Buchanan went out of office in 1861; such was the condition when Grover Cleveland went out of office in 1897; such was the condition when Woodrow Wilson went out of office in 1921."

Not that such proofs of free trade, or low tariff, distress are to be read as reflections on the Democratic party as a political organization, or of its principles in general, but rather as a clear exposition of the wretchedness of the free-trade or low-tariff policy which that party mistakingly had been led to sponsor through the years long after it had ceased to be of selfish benefit to the South, though a handicap to the industrial development of other sections.

To return to Mr. Kirby's address:

"We do not want either to tear down our custom-houses or to have a prohibitive tariff. We simply want safeguards that will enable us to compete in our own markets with what we have to sell. Five hundred and fifty million dollars were collected at our ports under this law last year. The foreigners are paying that amount to us in taxes for the privilege of selling their goods in our markets. This proves that enormous quantities of merchandise have come in, in spite of the existing duties.

"What would have been the result without such duties?

Our land would be swamped with foreign goods and there would be no hope for the average American industry. A low-tariff law, the past two years, would have closed hundreds and hundreds of factories and thrown millions of men out of employment.

"We want to save the home markets, the best in all the world, for our home people. We at least want to make them so that our home people can offer competition to the foreigner. Ninety per cent of the products of the soil in America are marketed in America. The trade of Louisiana is worth more to the farmers of the United States than the trade of all France. The trade of Pennsylvania is worth more to the farmers of the United States than the trade of all Great Britain, and the trade of any of the other states is worth more to the United States than the trade of any of the other countries.

"These are facts that are not generally recognized, but they are tremendously important, and we must get them before the farmers of the South."

In superlative sympathy with this educational campaign, in which the MANUFACTURERS RECORD has been engaged for 42 years, we would suggest that the primary fact to be impressed on the people of the "Solid South" and the Democratic voters of all sections is that *the tariff is not a political party issue*. And, incidentally, it might not be amiss to impress that fact on Republican voters likewise.

## STONE MOUNTAIN—A NATIONAL MONUMENT.

LAST March Congress passed an act to coin five million half-dollars commemorating the gigantic memorial being carved out of the living rock of Stone Mountain. The act unanimously passed the House and the Senate and was approved by President Coolidge. The design of the coin was accepted and approved by the Secretary of the Treasury, the Director of the Mint and the Fine Arts Commission. It is now at the mint where dies are being made. Assured by the Treasury Department that the coin would be ready in January, the Stone Mountain Confederate Monumental Association matured elaborate plans for its distribution throughout the country.

Notwithstanding the whole-hearted support and approval of this mighty undertaking, it is reported that an effort will be made at this late date to have Congress repeal this act, which has been acclaimed throughout the United States as an evidence of complete goodwill between the North and the South.

Can it be possible that there are those who would be willing, by advocating the repeal of this act, to undo all the good that has been done and reopen wounds long healed? What malign influence can be at work to resurrect the spirit of the "bloody shirt waving" days buried deep under the goodwill, contentment and prosperity of a united country?

Let us not dim our horizon with a narrow and petty viewpoint that would blind us to the broader outlook which the people of the United States are working with unselfish devotion to maintain.

The Stone Mountain memorial, so gigantic in its scope, is to be another wonder of the world. Nothing like it has ever before been conceived by man. It will be as lasting as the bedrock of the hills of which it is a part. It will commemorate not a "Lost Cause" or the deeds of a section, but truly the valor and heroism and self-sacrificing devotion of those of the North and South alike who have helped to weld these United States into a united country, a country which will rank in history as one of the greatest nations of all times.



## JAMES B. DUKE SETS AN INSPIRING EXAMPLE.

**B**EYOND the magnificent contribution of James B. Duke of \$40,000,000 to the promotion of religion, education and charity as foremost phases in the Christian civilization lies a more significant benefit to the South—the establishment of an example of concrete service which well may be emulated by other Southern men, both native and by adoption. Mr. Duke has given more than material money; he has given inspiration.

Two opposite, yet interwoven, pictures are presented in Mr. Duke: The initiative, energy and ability to accumulate a great fortune, and the practical Christianity and common sense which move him to devote it to the promotion on earth of Christ's work—the moral, mental and physical improvement and upbuilding of mankind. For Mr. Duke's donation is to be divided between educational institutions, orphanages and help for clergymen who have devoted unselfish lives to the cause of Christianity. As Mr. Duke himself put it, in effect:

"I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sincere and practical, as opposed to dogmatic and theoretical, lines, is, next to religion, the greatest civilizing influence.

"I have selected hospitals because I recognize that they have become indispensable institutions, not only by way of administering to the comfort of the sick, but in increasing the efficiency of mankind and prolonging human life.

"In helping the orphans, I am striving to help those who are unable to help themselves.

"I have tried to make provision for a very fertile and much neglected field for useful help in religious life—assisting those who have devoted their lives to the religious service of their fellow-men."

And, so, of 80 per cent of the income from his \$40,000,000 gift, Mr. Duke applies 32 per cent to Duke University, 32 per cent to the securing and maintenance of hospitals in North Carolina and South Carolina, 10 per cent for white and colored orphans in those states, 6 per cent for building Methodist Episcopal churches in rural sections of North Carolina, 4 per cent for maintaining churches of that faith, 2 per cent for pensioning superannuated Methodist clergymen, 5 per cent to Davidson College, 5 per cent for Furman University and 4 per cent for Johnson C. Smith University. The remaining 20 per cent of the income will be allowed to accumulate till it reaches the total of \$40,000,000, which should be in approximately a decade.

The South has given to Mr. Duke, as it has also to many others, a tremendous fortune; Mr. Duke returns it to the South in the finest form of gift that can be devised. From its soil and waters he has taken millions of dollars; to its uplifting he devotes this money. He transmutes the material power of the great streams into the greater and higher spiritual power, of religion, education and humanity. Are there not other such alchemists in the great South?

Especially commendable is Mr. Duke's intent to promote education along practical lines, "as opposed to dogmatic and theoretical." The need is pressing, the time is ripe for a movement in this direction. The trend of the times is seen in the Child Labor Amendment, through which, by supplementary legislation, Congress might impose "dogmatic and theoretical" education on young men and women through years when they well might be obtaining "education along practical lines." Mr. Duke is pre-eminently a practical man, and he proves in his action that the practical man can be of highest value to religion, education and charity by giving himself to practical application of the teachings of Christ, than which there is nothing more practical.

"I have tried to make provision for a very fertile and much neglected field," says Mr. Duke in his donation for the pensioning of superannuated preachers. Again his Christianity

takes eminently practical form—first, in discernment of the fertility and neglect of this great field, and further in its cultivation. Not only will the lot of many self-sacrificing men be lightened, and the lives of their families be eased, but others who might hesitate or decline a preacher's work will be encouraged and stimulated to undertake it, in knowledge that they will not work material injury to those dependent on them. It is more than care for those who have worn themselves out in the Lord's work on earth; it is almost a promise to other potential preachers that the laborer in time shall receive on earth the hire of which the Lord adjudged him worthy.

Probably in no part of the world have men accumulated, proportionately, more wealth than in the South, nor accumulated it in shorter time—it almost has been thrust upon them by the boundless generosity of nature. Merely one generation has seen the poverty-stricken South transformed into one of the most prosperous and wealthy areas on the earth. Shall not even a tithe of this increase go to God, who gave it?

This responsibility has been recognized and accepted, this opportunity has been seized by Mr. Duke. May his example serve as a stimulus and an inspiration to others!

## SCIENCE AND THE AVERAGE MAN.

**D**R. T. V. SMITH has said, "Science cannot reach its goal separated from the people, and science is separated from the people. \* \* \* If science cannot live with the average man, it cannot live without him." This is not to say that the average man must become a scientist. It means only that the average man must have a full appreciation of the value of science to everyday life, for otherwise science will not advance as it should, the average man will not avail himself of those advances science does make, and, eventually, to leap hurdles and come to a startling but inescapable conclusion, man will wreck civilization on his vaunted scientific progress. Francis P. Garvan has caught a great vision of this truth, and has been working for years to bring about a closer relationship between science and the public. The Prize Essay Contest, established and endowed by him, is a work which, alone, a man might feel to be a great life-work.

There are few things in life that are more necessary to its continuance, as we live it, than chemical science. Without sunlight the race could not long endure, but the sun shines upon us whether we will or no. Without oxygen we could not live five minutes, but the oxygen is everywhere, and we have only to forget it and breathe. Without the science of chemistry as it is known today the race would survive and live much as it lived before chemistry became a science. But, if some master of black magic could suddenly wipe from the mind of man all knowledge of chemistry and all practice of chemical processes in industry, millions of people would starve, civilization would be completely destroyed and the survivors would be plunged back into a state of savagery in which the struggle for existence would be more merciless and severe, probably, than has ever been known on earth. Yet the science of chemistry, unlike the sunlight and the oxygen, does not come to us for the taking. It must be sought eagerly, and paid for by profound thought and patient toil. Nor can it ever give to man the fullness of its riches without a widespread understanding of its value.

Mr. Garvan, in casting about in his mind for the best means for bringing home this realization to the people, doubtless appreciated the valuable work that has been done in late years by popular magazine articles and books on the subject. It may be that he considered the advisability of trying to set going a movement to have courses introduced into the schools, not in chemistry but in the relation of chemistry to everyday life. If he did, he wisely dropped it, and hit upon a

plan by which thousands of students, without altering their already crowded school curricula, would be led to study eagerly the available popular literature on the subject—would be stimulated to think for themselves, and thus come fully to realize for themselves the complete dependence of life as we live it on the science of chemistry; further, would come to realize something of the boundless possibilities still locked in the secrets being—and remaining to be—explored.

In order to carry out this idea, Mr. Garvan organized the Prize Essay Contest. The contest is divided between the high and secondary schools, and the colleges and universities. Three hundred prizes of \$20 each are provided for the winners of local essay contests. Winners of the local contests are eligible to compete for the national prizes, which are, for high and secondary school students, scholarships to Yale University or Vassar College, each providing tuition fees and \$500 annually for four years. For college students, the national prize is \$1000, six such prizes being awarded, one in each of the six subjects. The six subjects assigned, and from which contestants in all contests must make their selection, are:

The Relation of Chemistry to Health and Disease.

The Relation of Chemistry to the Enrichment of Life.

The Relation of Chemistry to Agriculture or Forestry.

The Relation of Chemistry to National Defense.

The Relation of Chemistry to the Home.

The Relation of Chemistry to the Development of an Industry or a Resource of the United States.

Any one of these subjects is a boundless field for study and research and inexhaustible in practical possibilities. "The Relation of Chemistry to Health and Disease" includes the study of medicine, with all the complex and little-understood processes of the body. It ramifies into the chemistry of foods, the organic processes of plant life, the mysterious chemistry of sunlight on the body, the chemistry of those little-understood glands that control longevity and that, rightly understood, chemists are beginning to believe will enable us to prolong the period of youthful vitality, energy and enjoyment of life far beyond the greatest span of life now possible.

"The Relation of Chemistry to the Enrichment of Life" might readily be extended to cover the other five subjects; but, since they are assigned as subjects also, this subject would seem to be limited to those industrial uses of chemistry, such, for instance, as the highly developed metallurgical processes that enable us to make implements and machines of metals, and thus rise above the state of the Stone Age; the manufacture of glass, by which our homes may receive daylight while remaining closed to wind, rain and cold—in other words, without which our homes would be little better than the Eskimo's igloo or the Indian's wigwam. It includes the manufacture of paper for the diffusion and preservation of ideas and knowledge. It includes, either directly or indirectly, nearly every convenience and advantage the civilized man has over the savage for the enjoyment of life.

"The Relation of Chemistry to Agriculture" is so vital that without the knowledge it gives of fertilization all the farm lands in this country would long since have been exhausted, and, if we were able to live on any higher scale than that on which the Indians before us lived, it would be in the most painfully precarious, underfed fashion, in small numbers and frequently subject to such famines as have for centuries devastated parts of less progressive nations.

"The Relation of Chemistry to National Defense" suggests first, probably, the explosives, some form of which have been used since the defense of Constantinople, in or about the year 600. Next, we think of the poison gases developed during the World War. Then we think of the great factories and organizations necessary to produce those gases and the time required to build them, and we realize the importance—if we are to depend upon them—of developing them to the highest

pitch of efficiency as peace-time sources of dyes and other perennially useful chemicals. As we ponder the potency of poison gases, the ease with which they may be turned out in large quantities secretly, the ease, silence and deadly swiftness with which they may be directed, not only against an army but against the source of the army and its supplies—the civilian population—we realize that chemistry has reached a stage at which warfare, if further indulged in, may wipe out a nation almost overnight, and we thus see one angle of that truth, that unless the average man understands the potentialities of science he will wreck his civilization upon it.

"The Relation of Chemistry to the Home" has so many angles, and ramifies so far into several of the other subjects selected, that in treating them most of the relation of chemistry to the home has been covered. But a contestant selecting this subject would doubtless be expected to follow the ramifications into medicine, into cookery and into certain branches of industry. For, surely, a modern home would be rather incomplete without lime or cement mortar in the walls or paint on them; without paper or paint on the interior walls or glass in the windows; without nails and screws and varnish and hinges; without the various chemical products that go into the making of the telephone, the insulation of the light wires, the processes back of the gas for cooking or even for lighting, or the refined oil for use in lamps.

"The Relation of Chemistry to the Development of an Industry or a Resource of the United States" may be illustrated by a statement made recently by Andrew W. Mellon: "An industry is made great by the scientists in its employ, not by its raw materials or its products." As the head of the Aluminum Corporation of America, which is founded squarely on chemical research, Mr. Mellon ought to know what he is talking about.

It would be difficult to imagine a greater service for the advancement of science, as well as for the advancement of a popular understanding thereof, than Mr. Garvan's plan for stimulating thousands of the youth of the land to study and think searchingly along these lines.

## AN ARRAIGNMENT OF AMERICAN PARENTS.

NO more scathing and unfair arraignment of the American people ever has been expressed than in the proposed Child Labor amendment. In effect, this asserts that American children are exploited by their parents, without thought or consideration of the children's welfare, comfort and education—that the parents of American children are not to be trusted with the proper care of their children, and that, therefore, the Government must take charge of them; that the parents would force their children into unsuitable employment, in which their mental, moral and physical development would be stunted—that the children would be made slaves through the cupidity of their parents, while the individual states winked at such oppression. And, therefore, children must, moreover, be nationalized under the control of the Federal Government.

This would mean, in effect, that all youths up to 18 years of age would be in slavery to a Federal Bureau in Washington, managed, in all probability, by childless maidens and taught from infancy to 18 years of age to be under the domination of a Washington bureau. That is the basic meaning of the proposed amendment.

## AIR-MAIL SERVICE FOR THE SOUTH.

NOTWITHSTANDING he has much on his mind, Uncle Sam should not be permitted to forget the necessity for a South Atlantic air-mail service. Opportunity is open for the Congressmen from the South to do a great work for their section.



## A LETTER FROM MR. SIRRINE—SOUTHERN EXPOSITION TO BE HELD IN MAY.

Greenville, S. C., December 8.

Editor *Manufacturers Record*:

The postponement of the Southern Exposition from January until May, 1925, has met with unanimous approval of the Southern people. Many expressions of this have reached me from various states. It was manifestly impossible to hold the Southern Exposition in a manner which would reflect credit upon the great section whose growth we desire to portray at the time originally planned, namely, January 19. Several of the states were ready but others were only half prepared. Still others had so little time in which to complete their organizations that they urged us to defer it for a few months, so that we felt it necessary after the most careful consideration to hold the Exposition in the spring.

Our organization has now been preparing for the Southern Exposition twelve months, and in that period of time we have visited most of the Southern states and held conferences with the governors and prominent citizens. From the beginning there has been the suggestion that the Exposition would attract a larger number of visitors if it were held in a milder month than January. The new date removes all danger of snow-storms, blizzards and bad weather.

May is the most beautiful month New York enjoys. At that time there are thousands of buyers in the city. The winter has broken, the air is invigorating and sparkling. The shop windows are full of new styles of everything. Every place of amusement in New York is in full operation, and altogether it is the best time for the North and South to get better acquainted.

The Exposition will be practically the same as planned for January. Corn, barley and other grain can be shown nearly as well in May. May, however, will permit the Southern states to show many early vegetables and many other things in a growing state, which would not be possible in January. The industrial exhibits, of course, will not be affected.

The only material change in our plans is that commissioners will be appointed in each state to co-operate with the state committees. These commissioners will be in effect aids of the governors. In most of the states their first duty will be to form an underwriting syndicate to provide the sum of \$7500 to pay for 2500 feet of space to exhibit the state's agricultural, horticultural, mineral and other natural resources. Later they will raise an equal sum to assemble, prepare and demonstrate the exhibits. In most cases the legislatures meet in January, so that the commissioners will arrange to underwrite the sum required to secure reservation above mentioned, and the legislature will probably pass the necessary bill. North Carolina has already appropriated \$15,000, and copies of its Act are being circulated through the Southern states and will be largely used as a model. In some of the states where the legislature does not meet until later in the year the underwriting will be arranged on a slightly different basis.

In several of the states the commissioners will have very little to do, as in North Carolina, for instance, the money has already been appropriated. However, each state is a law unto itself and the committee will do exactly as it pleases. Our plan is only a suggestion. This, however, will make the Southern Exposition more interesting than if it were gotten up on a hard and fast plan.

We hope that none of the states will be missing when President Coolidge opens the Exposition on the 11th day of May. The Grand Central Palace authorities have made the statement that never in their experience have they known of such publicity as has been given to this all-Southern enterprise. The magazines, business and trades papers, and the newspapers of the nation have been printing articles about the Exposition for many months. The Chamber of Commerce of the State of New York and the New York Merchants' Association have extended formal invitation to the Southern states to take part.

WM. G. SIRRINE, President, Southern Exposition.

As the foregoing communication shows, it has been deemed best to decide on a date in May for the holding of the Southern Exposition instead of postponing it until next November, as was first planned when a postponement was decided upon and as the *MANUFACTURERS RECORD* was informed when the announcement was made a few weeks ago. In many respects May is a better month for the South to come to

New York. We take pleasure in printing the letter from Mr. SIRRINE, which contains besides the news of the May date a statement of some changes in handling financial arrangements for the Exposition.

## WONDERFUL GROWTH OF THRIFT AND SAVINGS.

IN an article published in the November number of "The Wachovia," a periodical issued by the Wachovia Bank & Trust Company of Winston-Salem, N. C., C. T. Leinbach, vice-president, tells an interesting story of the growth of savings deposits in the banks throughout the country, quoting Charles H. Deppe, president of the Savings Bank Division of the American Bankers' Association, who made an address at the recent annual convention in Chicago. Mr. Leinbach says that in 1912 the total number of savings accounts in the country was 12,584,316 with total deposits of \$8,425,275,000, but in 1923 the number of accounts was 36,299,701 and the total of deposits was \$18,373,062,000. In 1912 total savings deposits were 50 per cent of the total bank deposits which were \$16,727,733,000, and they showed per capita savings of \$89; in 1923 they were 52 per cent of the total bank deposits, which were \$34,993,325,000, and they showed per capita savings of \$166.

"The growth in the number of banks receiving savings deposits during the last decade," says Mr. Leinbach, "indicates in some measure the appreciation on the part of bankers of the value of savings business. The number of banks reporting savings deposits in 1913 was 5838, while in 1923 there were 21,385, an increase of 266 per cent. Another fact revealed is that the total reported savings deposited in banks of the United States as of June 30, 1923, (\$18,373,062,000), almost equals the total individual deposits of all banks June 30, 1913. The population of the United States has increased 14 per cent, individual bank deposits 88 per cent, savings deposits 108 per cent and the number of banks reported as receiving savings deposits 266 per cent."

Mr. Leinbach comments on the school savings idea thus: "The fifth annual report of school savings banking also reveals a considerable increase. During the year closing June 30, 1924, the number of reporting school savings systems has increased from 494 to 683, which embraces 742 districts; the number of schools from 6868 to 9080; the number of pupils enrolled in schools having systems, from 3,061,053 to 3,095,012; the participants from 1,907,851 to 2,236,326; the collections from \$10,631,838 to \$14,991,535, and the reported bank balances from \$11,807,085 to \$20,435,144. \* \* \* Two cities in the United States have accumulated above one million dollars each in school savings balances and several others report in excess of one-half million dollars."

A motion picture about thrift was shown and Miss Ruth Roland of Los Angeles, Cal., who appeared in it, also appeared, in person, before the convention and made an address, making the point that teaching of thrift should not begin and end in the home, for in some homes there was no thrift and children in such would grow up as spendthrifts; therefore, it is important that the schools teach thrift. "Who is it," she exclaimed, "that is demanding 'Down with the present form of government! Down with the individual ownership of property?' Who is it that is continually complaining of business conditions in this country? It's the person who has nothing to divide. Doubtless you have observed that the thrifty citizen is not a complaining, dissatisfied, discontented citizen. Let a business depression come along and the first person to complain is the person who has not saved and not the person who is thrifty. Therefore, I say, thrift should be instilled in the life of every boy and girl in order that we continue to be a happy nation. In Los Angeles there are over 50,000 children

under the age of thirteen years having a savings account today as a result of school savings. These children have to their credit over \$550,000. This represents only two years work in the elementary schools of one city."

This exceedingly gratifying article by Mr. Leinbach will be welcomed and appreciated by everyone who has the general welfare at heart. It is particularly encouraging that thrift had made such progress in the last ten or twelve years as he conclusively demonstrates by the figures presented. In all probability there will be totaled figures ten years from now which will show a much larger percentage of growth in savings, for everywhere the thrift idea is making progress and it is evident that the results of the late election were in large part due to that fact.

### GOVERNMENT UTILITIES OWNERSHIP ABROAD.

**I**N the discordant bellowing of the La Follette mobs of socialists, communists and soviets demanding government ownership of public utilities, the words of a great French statesman, as quoted by Edward N. Hurley in *Colliers' Magazine*, sound as clear notes of sanity. As a premise, this French statesman says:

"If you will study the theory of state ownership, you will find it right or, at least, not wrong. The Lord put the coal and the ore into the ground, and it does not seem quite right that a mere handful of citizens should own and profit from nature's bounty. Neither does it seem right for other small groups of citizens to control transportation, communication and other necessary services, without which a nation is helpless. Of course, if you just carry this thought on a little, you will have socialism, for food and clothing and shoes are even more necessary than our railroads."

Turning then to government ownership of railroads in Europe and saying that the governments cared nothing for efficiency, he explains the real, the true reason for government ownership of railroads abroad:

"The state owns railways and other properties for exactly one reason—that reason is war. Before the great war, there was not a country in Europe which would have bothered owning railroads or anything else it did not have to own to carry on the business of government, were it not for war. Private individuals could not be expected to build railroads according to the plans of the various general staffs. The railroads were not expected to pay, any more than the army or the navy were expected to pay. They were just a part of the war machine, and any social theory tacked on was just for public consumption."

Right there was shown the fallacy of the argument that the United States Government should own or operate American railroads, "because they have government ownership in Europe." For the American Government to run the railroads for the same reason the foreign governments do, would be to proclaim to those governments that the United States was a militaristic nation—instead of a peace nation. They would not understand any other excuse for American Government ownership of utilities.

Foreign governments do not own and manage railroads for profit or for the economic welfare of the people, but solely as a branch of the military service, just like the army and navy.

At this point, the French statesman raises another interesting phase:

"The trouble now in Europe is that these war railroads have slipped from military to political control. I have not the slightest doubt that an autocracy could manage its business affairs just as well as any private corporation. But, the moment you get into democracy and the people with state jobs have votes, then they are going to vote not as citizens, but as jobholders, and the state will be run for the benefit of those who draw pay from it. That is the one big thing we have learned over here since the war.

"It does not make one bit of difference how perfectly any scheme of state ownership is worked out on paper; it does

not make a bit of difference how honest and public spirited are the men who back state ownership, because, human nature being what it is, office-holders are going to vote for their jobs. You would do it and I would do it. We would vote for higher wages and less work—that is, for more food for the family and more time to spend with them. We would vote for the security of our jobs."

On Mr. Hurley's estimate that 7,000,000 persons would go on the American Government payroll under government ownership of public utilities, the French statesman said:

"That would mean, then, counting each public employe as worth three votes, a bloc of 21,000,000 voters, wouldn't it? What would that do to your politics?"

"There wouldn't be any more politics," answered Mr. Hurley, citing the fact that Mr. Harding got only 16,000,000 votes for President and that the total vote was about 25,000,000.

The Frenchman then cites the increase of government railroad employes in Germany, from 750,000 under autocracy to 1,000,000 under a republic. Passenger and freight rates have increased tremendously, and mileage has fallen proportionately, and the receipts are one-third of the expenditures. He also cited Austria and Italy as even worse than Germany.

Mr. Hurley himself concludes the article, as follows:

"What I learned of state management abroad shows that the people do not get service and that the employes as a rule do not get decent wages.

"The reason is plain. Politics is politics. The railroads and the public utilities are branches of business. Politics and business do not mix. The responsibility of the worker is not to his job, but to his political superior; he becomes just one of a herd of voters and it is how he votes, not how he works, that matters. That is bad for the worker; it is bad for the public. That is what the plain, ordinary people of Europe seem to have found out. Even the government workers themselves are beginning to find out that political employment means political slavery."

But, demagogues will continue to rant and to deceive the people for their own selfish ends, and unless their lying campaign is countered by a campaign of real education there is no telling to what extreme deluded persons may go.

### THE MINE WORKERS SEEM OBTUSE.

**S**OMEHOW, the United Mine Workers of America seem obtuse. They can't seem to understand why such good organized-labor men as members of the Brotherhood of Locomotive Engineers, as owners of the Coal River Collieries, should refuse to meet the wage demands of the union miners. For Brotherhood owners of the collieries, it appears, assert it would be financial ruin to their company to pay the scale named by the coal miners' union, and absolutely decline. Whereat, the union miners have adopted a resolution charging that the Coal River Collieries, in which Warren S. Stone, president of the Engineers' Brotherhood, is chairman of the board, is seeking "to destroy the United Mine Workers in West Virginia and Kentucky." Here is one fight in which "the innocent bystander"—the public—appears to be safe from injury.

### Studying the Metallurgy of Zinc.

A study of fuel problems in the metallurgy of zinc is being conducted by the Interior Department at the Mississippi Valley Experiment Station of the Bureau of Mines, Rolla, Mo. Preliminary visits have been made by the investigators to a number of zinc smelting plants in Kansas, Oklahoma and Arkansas. At these plants, information was obtained concerning methods of operation, fuel problems and refractories problems. A general study of the literature of zinc smelting and high temperature measurements is being made.



## Mr. Duke's Wonderful Gift.

**\$40,000,000 TRUST FUND TO BE OF INESTIMABLE VALUE TO THE SOUTH AND TO THE WORLD.**

**Hospitals, Schools, Churches, Orphanages and Other Causes to Benefit.**

By WADE H. HARRIS.

Charlotte, N. C., December 12.

Fifteen years ago James B. Duke, making note of the operations of the power plants he was establishing along the Catawba River in the two states of North Carolina and South Carolina, and visioning the future situation when his system of power plants should be completed and its earnings attained volume, with consequent development of industry, conceived the idea of an extended usefulness of the developing wealth in a direction other than that of the upbuilding of industry. The power plants were giving new life to old-established industries, developing new industrial towns and giving profitable employment to thousands of people. They were showering prosperity throughout the wide territory reached by their lines, but they could do more. They could be applied equally as well to the promotion of education and the uplift of the people. Mr. Duke then concluded that when the time arrived that the plants were developed to a stage which would justify creation of a trust organization, the organization should be formed, to the consequent distribution of great wealth among the people of the two states.

The development of water-powers has advanced to the stage when Mr. Duke could see the setting aside of a trust fund of \$40,000,000 as a beginning. He went quietly about formulation of the final plans, the announcement of which has been the talk in the newspapers of the nation the past few days. It was given instant recognition as the greatest contribution to the welfare of the people ever made by a Southern man.

When one comes to consider the possible future development of the foundation, it may be regarded as one of the greatest beneficences in the history of the world. For within ten years the \$40,000,000 foundation will have grown into \$80,000,000, and it will grow with the growth of industry.

Briefly, Mr. Duke has given \$40,000,000 to the various causes of education, hospitals, churches, orphanages and superannuated preachers. The terms upon which the trust is created provides, first, that 32 per cent of the income shall go to establishment of the Duke University; a like per cent is to go to hospitals, both white and colored people to advantage; 10 per cent is set aside for establishment of orphanages for both whites and colored; for the upbuilding of rural churches, 10 per cent is provided; 10 per cent goes as pensions for aged preachers and the widows and orphans of deceased preachers; 5 per cent is donated to Davidson College, the Presbyterian institution located in Mecklenburg county; 5 per cent is donated to Furman University, the Baptist institution in South Carolina. The Johnson C. Smith University, located in Charlotte, devoted to the education of negroes, gets 4 per cent.

The trust is administered by fifteen trustees, Mrs. James B. Duke being at the head, the remainder of the board having been selected from the business men associated with Mr. Duke in the management of his properties.

The Duke University is to come in for immediate benefits. Six million dollars of the trust fund is to be used in acquiring land and erecting and equipping thereon the necessary buildings. Trinity College, located at Durham, is a monument to the Duke family, having been fostered by that family and brought up to its present condition through Duke donations. Naturally, Mr. Duke turned to Trinity as the first object of his love, and the stipulation was that this college was to become the beneficiary, the sole consideration being that the

name be changed to Duke University. This means creation of a great university in North Carolina along lines which may prove a little in advance of Harvard and Yale. In fact, Duke University promises to develop a distinctive character of its own. In its reconstruction several of the buildings included in the present plant will be torn down. They are fine buildings and comparatively new, but they cannot be made to fit into the plans of the architects engaged in assembling the units of the new educational plant. Six million dollars is but a starter for the Duke University. The institution being planned for Durham is going to make a name famous throughout the world. The people as yet have no conception of Mr. Duke's ambition for the university that is to bear his name.

The ideas of Mr. Duke are forcibly set forth in his instructions to the trustees of the fund. It might be well to put these instructions on record as illustrating the motives animating the benefactor. He wrote in the trust:

"I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines, is, next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees and faculty men of such outstanding character, ability and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics, and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

"I have selected hospitals as another of the principal objects of this trust because I recognize that they have become indispensable institutions, not only by way of ministering to the comfort of the sick but in increasing the efficiency of mankind and prolonging human life. The advance in the science of medicine growing out of discoveries, such as in the field of bacteriology, chemistry and physics, and growing out of inventions such as the X-ray apparatus, make hospital facilities essential for obtaining the best results in the practice of medicine and surgery. So worthy do I deem the cause and so great do I deem the need that I very much hope that the people will see to it that adequate and convenient hospitals are assured in their respective communities, with special reference to those who are unable to defray such expenses of their own.

"I have included orphans in an effort to help those who are most unable to help themselves, a worthy cause, productive of truly beneficial results in which all good citizens should have an abiding interest. While in my opinion nothing can take the place of a home and its influences, every effort should be made to safeguard and develop these wards of society.

"And, lastly, I have made provision for what I consider a very fertile and much neglected field for useful help in religious life, namely, assisting by way of support and maintenance in those cases where the head of the family through devoting his life to the religious service of his fellow-man has been unable to accumulate for his declining years and for his widow and children, and assisting in the upbuilding and maintenance of churches in rural districts for themselves, believing that such a pension system is a just call which will secure a better grade of service and that the men and women of these rural districts will amply respond to such assistance to them, not to mention our own Christian duty regardless of such results. Indeed, my observation and the

broad expanse of our territory make me believe it is to these rural districts that we are to look in large measure for the bone and sinew of our country.

"From the foregoing it will be seen that I have endeavored to make provision in some measure for the needs of mankind along physical, mental and spiritual lines, largely confining the benefactions to those sections served by these water-power developments. I might have extended this aid to other charitable objects and to other sections, but my opinion is that so doing would probably be productive of less good by reason of attempting too much. I, therefore, urge the trustees to seek to administer well the trust hereby committed to them within the limits set, and to this end that at least at one meeting each year this indenture be read to the assembled trustees."

No other incident in the history of the Southern states so aptly illustrates the possibilities of achievement in North Carolina by native talent. Mr. Duke is not an old man. A man stout of physique, strong in health and active in mind is not old at 67. In the ordinary course of events he has reason to expect many years of activity ahead of him. Mr. Duke may live to see the tree which he has just planted bearing fruit; he may even plant another tree before he passes to his reward.

James Buchanan Duke was born on a farm and his earlier years were spent in hardships. His father was a tobacco grower and began curing and manufacturing the weed in primitive fashion, putting the tobacco up in small cheesecloth bags and selling them to country merchants at 10 cents a bag. It was while beating this tobacco into small flakes suitable for the pipe that young James Duke began studying better methods of manufacture, and working in the log barn on the farm which had served as "factory" from the beginning of the enterprise, he made advancement which suggested moving to Durham and opening a "regular factory." A frame building in that town was rented in 1875, and then began the development of the great Duke tobacco interests. James Duke was salesman and manufacturer. He needed money at times to buy machinery, but he never borrowed. He depended on his own energy and enterprise and these never failed him. He was shortly recognized as the organizer and developer of the tobacco industry in this country and in Great Britain. His trousers were tied up with a string when he started his factory in Durham, forty-nine years ago. He is now able to give away \$40,000,000 for the benefit of humanity and still retain a comfortable fortune for himself and his family.

It requires everlasting diligence to keep the tobacco business going, and Duke has never known rest from the responsibilities of the tobacco trade. But the money he placed in development of water-powers needs no further attention. It works automatically in production of more money, and as long as water flows over his dams money will flow into colleges and hospitals, churches and orphanages.

Duke is a fine example of the North Carolina self-made man. He never puts on any frills; he dresses plainly, he talks plainly and he lives plainly, and no man in history has given a better example of how wealth can be distributed to the benefit of his fellowmen. The money poured into his hands by one water-power was placed to development of another water-power. Now the accumulated wealth these powers are producing is, by his instruction, being placed at the service of the people in the most useful of directions. Unlike most great bequests, no strings are attached. No institution is required to raise any stated amount to match the gift. Forty million dollars are added to what a struggling people have been able to do for themselves.

Authority has been granted by the Georgia Public Service Commission to the Columbus Electric & Power Co. of Columbus, Ga., for the issuance of \$2,000,000 in first and refunding mortgage bonds and \$2,000,000 in three-year gold notes.

## NATIONAL PARK IN THE SOUTH.

### Blue Ridge of Virginia Chosen for First National Park in Eastern Section of Country.

The Blue Ridge of Virginia has been chosen as the site for the first national park in the Eastern part of the United States, according to an announcement by Secretary Work of the Department of the Interior, who proposed that it be established and named the Shenandoah National Park. The region was declared to be the most desirable because of its scenic, historic and recreational qualities, and because it is within a day's travel of more than 40,000,000 people and but three hours ride over a paved road from Washington.

The choice was based on a report to Secretary Work from the Southern Appalachian National Park Committee, headed by Representative H. W. Temple of Pennsylvania, which during the past eight months has made an extensive tour of inspection of many proposed sites. Although no effort was made to estimate the cost of acquiring the Blue Ridge area, which embraces 700 square miles in eight counties between Front Royal and Waynesboro, the committee expressed the belief that through constructive co-operation between Virginia and some large landholders, reasonable prices would obtain and probably some donations might be expected. The area is full of historic interest, the mountains overlooking valleys where many of the battles of the Revolutionary and Civil Wars were fought, and where a number of Presidents of the United States were born.

It is pointed out that it will be possible to build a skyline drive on the mountain top continuously along the ridge looking down westerly on the Shenandoah Valley and easterly commanding a view of the Piedmont Plain, stretching to the Washington Monument in Washington, which may be seen on a clear day. Two highways, the Lee and Spottswood trail, directly cross this region, and the Jefferson highway runs through Waynesboro. The area contains numerous canyons and gorges in which are beautiful cascades. It has splendid primeval forests and an animal refuge of national importance. A zoological garden of native animals may be established in it.

The members of the committee, who served without remuneration, are: Representative Temple, who was formerly professor of history and political science in Washington and Jefferson College; W. A. Welsh, chief engineer and general manager of the Palisades Interstate Park of New York and New Jersey; Harlan P. Kelsey, former president of the Appalachian Mountain Club of Boston and a well-known landscape architect; William C. Gregg, a prime mover of the National Arts Club of New York, and a director of the National Park Association; Glen S. Smith, acting chief topographic engineer of the Geological Survey and representing the Secretary of the Interior on the committee.

### \$1,000,000 Contract for Coke Ovens in Alabama.

T. J. Bray of Youngstown, Ohio, president of the Republic Iron & Steel Co., Birmingham, Ala., wires the MANUFACTURERS RECORD that his company has awarded contract to the Koppers Company of Pittsburgh, Pa., for the construction of a battery of coke ovens at East Thomas, Ala. It is stated that the battery will consist of a total of 57 ovens and will cost more than \$1,000,000. In addition to the operation of blast furnaces, coal and ore mines and limestone quarries in the Birmingham district, the company also operates a railroad between the coal mines and furnaces.

The Elks Club of Jacksonville, Fla., is having plans prepared by Roy A. Benjamin of that city for a \$250,000 clubhouse to be erected at Adams and Laura streets.



# Big Railroad Extension Almost Ready in Florida.

SEABOARD AIR LINE'S THROUGH ROUTE TO WEST PALM BEACH TO BE IN FULL OPERATION JANUARY 22.

A record piece of railroad construction is rapidly being pushed to successful conclusion in the heart of Florida to give the Seaboard Air Line Railway its own independent route to West Palm Beach, and it is expected to be open for the regular daily use of through trains early in January. For rapidity of work the building of this 200-mile extension, known as the Florida Western & Northern Railroad, probably stands unequalled, for the first grading was not begun until last March, and then in only a very modest way, large forces not being employed until nearly midsummer after the plan had run the gauntlet of the Interstate Commerce Commission, where strong opposition to its realization was voiced by rival lines but without avail. It will have cost about \$7,000,000, bonds to that amount having been issued and sold last summer to provide the financing necessary to construction, which reflects the wisdom of President S. Davies Warfield in his conception and recognition of the public needs. The Jefferson Construction Co. of Charleston, S. C., of which W. R. Bonsal is president, is the contractor.

The new road has been built to meet the severe demands of modern railroad traffic. Long stretches of curveless track, straight as a taut string, with easy grades and curves characterize it; the rails weigh 100 pounds per yard. On the entire line no grade is heavier than fifteen feet to the mile. No curve exceeds two degrees. The 204 miles of track form a line 96 per cent straight. From Coleman, the northern end of the extension, 41 miles southward are without a curve. From Sebring to Okeechobee City the 37 miles of track are also curveless, and the 57 miles from Okeechobee to West Palm Beach are mathematically without a turn. To obtain minimum grades many heavy cuts and fills were made, particularly in the hilly parts of Polk county.

There are two bridges on the line, one crossing the Kissimmee River at Okeechobee and the other over the St. Lucie drainage canal, which latter extends from Lake Okeechobee to near St. Lucie Inlet on the seacoast. The foundations of these bridges are of concrete; the spans are of steel.

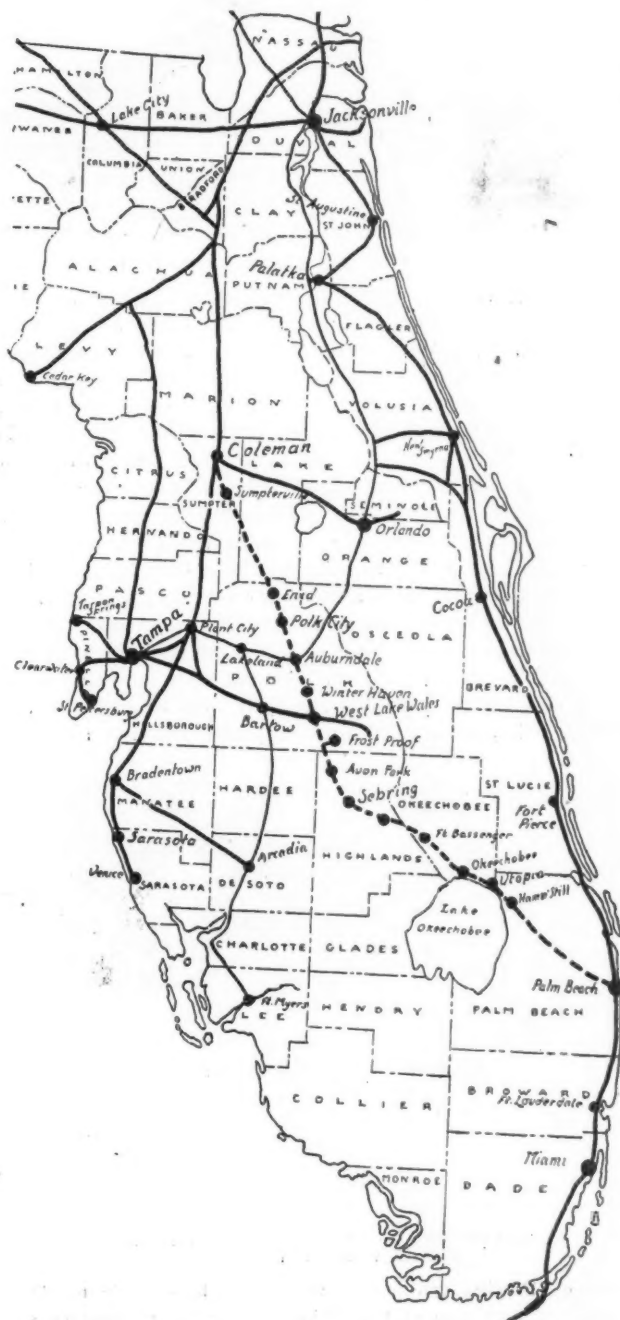
Handsome passenger stations of the Spanish type of architecture are being erected with stucco walls and red tile roofs, and they are distinct additions to a number of attractive features of the different places where they are located. Safety appliances will also be installed similar to those in use on the existing parts of the Seaboard system.

In building the new extension graders and tracklaying machines have been employed to the greatest possible extent, this doing away with much of the slower and expensive manual labor. To do this work the Jefferson Construction Co. took to Florida its complete organization of executives and clerks, which made the completion of the contract in record time possible. There have been employed on the grade 25 dragline machines, 7 steam shovels, 4 track-laying machines, 1 ditcher, several scraper outfits, 20 locomotives and several thousand men. In hastening the job to a finish all machinery is being worked day and night, and track is being laid at the rate of two miles every twenty-four hours. Particular attention is being paid to thorough drainage of the roadbed, not only for safety but for keeping down maintenance expenses.

While grading was started in March last, it was not pushed until after August 1 when the permit for construction was issued by the Interstate Commerce Commission, but since that date every ounce of energy possessed by the contractors and their men has been and continues to be used to insure com-

pletion of the line at the time promised. The extension will be turned over to the Seaboard's operating department for through trains to run as far as Sebring, beginning January 9, and on January 22 they will begin to run through on the entire new line.

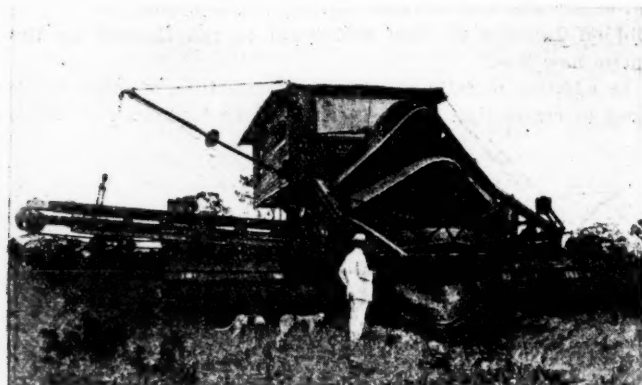
In addition to fully meeting the competition of other trunk lines in conducting fast passenger traffic between New York



MAP OF SEABOARD AIR LINE RAILWAY'S EXTENSION NOW BUILDING FROM COLEMAN TO PALM BEACH, FLORIDA, 204 MILES.

Heavy black lines show the Seaboard's present routes to Tampa, Sarasota, etc., and another heavy line shows the Florida East Coast Railway from Jacksonville to Palm Beach and Miami. Light black lines show the Atlantic Coast Line Railroad's route from Jacksonville to Tampa and Fort Myers. One of the Seaboard cutoffs is shown immediately to the northwest of Jacksonville; another is near Tampa.

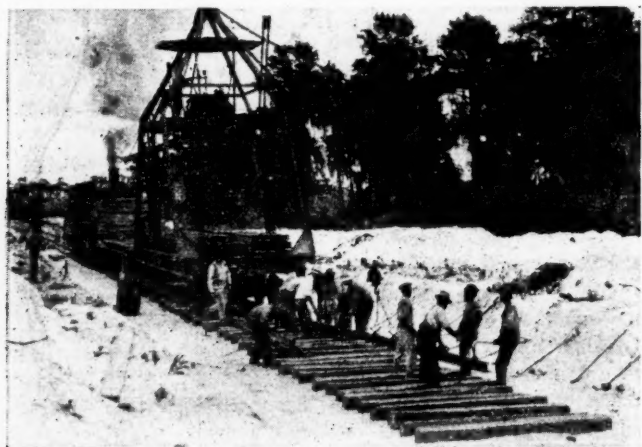
and other large cities and Florida points, such as Tampa, Palm Beach and other resorts, the new route will provide means for fast express trains between the eastern and the western coasts of Florida. At present if one would go from the east to the west coast he must first go to Jacksonville, which necessitates a long detour in the case of travel, say from Palm Beach to Tampa, or else in the opposite direction. But the new line of the Seaboard will cut the time of such



DITCHING MACHINE AT WORK ON ROAD BED.

a journey from 24 hours to six hours or less, for the distance will be only 185 miles between those two cities. This route will be via West Lake Wales to Welcome Junction, thence to Valrico over a new cutoff, and thence to Tampa, St. Petersburg and other places on the Gulf Coast of Florida.

The aggregate length of all the cutoffs being constructed is 35 miles, which, added to the 204 miles from Coleman to West Palm Beach, makes a total of 239 miles of new construction, all of which is in Florida, and this, added to the Seaboard's existing lines of 1206 miles in the state, will make altogether 1445 miles of Seaboard lines in Florida. It being an axiom among transportation men that freight follows passenger traffic, so the Seaboard's extension, in addition to providing a new and direct travel route between the north and the east and some of the cities of the great peninsular state which were not before reached by that system, will also open up a tremendously important field for the production and transport-



TRACK LAYING MACHINE AT WORK  
PEACE VALLEY, FLORIDA.

tation of Florida fruits and vegetables to outside markets. It goes through one of the richest and most productive sections of the state, a region which even before the coming of the new line was ready and clamoring for better railroad service; a section that is increasing in population and wealth as rapidly as any other part of Florida and under the guidance of intelligent and progressive citizens; a section of unlimited possibilities for agriculture, horticulture, stock raising and sugar production. Besides, it includes the enor-

mous fish production from Lake Okeechobee and the output of some of the richest phosphate mines in that state.

The total area of the six counties traversed by the extension from Coleman to West Palm Beach is 5,113,160 acres. Deducting for rivers, lakes and townsites leaves approximately 4,750,000 acres of arable lands, or about 24 per cent of the cultivable acreage in the whole state. The population of this area, according to the Federal census of 1920, was approximately 100,000, the population of Highland county being estimated, as that county was not formed until 1921. This aggregate has increased up to 1924 by a large percentage, for no part of rural Florida has grown more rapidly than this during the last five years.

From these mid-Florida counties in the crop year 1923-1924 more than 10,000,000 boxes of citrus fruits were shipped, or close to one-half of the crop produced and shipped in the entire state. From this section in the same year were shipped 8375 carloads of vegetables, or almost 20 per cent of all the vegetables grown in Florida. By its branches and connecting lines which penetrate many adjoining counties



ROAD BED ON PRAIRIE BUILT BY TRACTOR AND GRADER. the Seaboard will serve the largest part of the fruit and vegetable growing sections of the state, much of which it has served for years. Its new line bisects the richest of the productive territory of Florida. In addition to fertile soils, it has climatic conditions that are most favorable. It is dotted with hundreds of little lakes which are a protection against the rare emergencies of killing frosts, and there are also not inappreciable softening influences produced by tempering breezes from the Gulf of Mexico on one side and the Gulf Stream in the Atlantic Ocean on the other. The highest elevations above sea level to be found in Florida are in this section.

The idea of building a railroad through the ridge region of Florida to Palm Beach first attracted the attention of President S. Davies Warfield of the Seaboard Air Line more than ten years ago, before the great war in Europe started. At that time also it was suggested by Jules Burguières, general manager of the Southern States Land & Timber Co., that they would like to get a line built from West Palm Beach which would run through the timber lands of the company for logging operations. At that time there was no purpose to build a through line or a real railroad. He approached Mr. Warfield, president of the Seaboard, who made an investigation to ascertain if it were possible to cross Florida by automobile to see whether the Lake Wales-Nalaca line of the Seaboard could be extended through the Burguières property, taking a course to the northward of Lake Okeechobee.

As a result of this inquiry Mr. Warfield and Mr. Bonsal in 1916 took the trip across the state, having several light automobiles as relief machines in the event of one being stuck. It proved a difficult trip, but they mastered it and saw what they desired. But, as at that time all indi-



cations pointed to the United States entering the war, which it did in the spring of 1917, President Warfield abandoned the idea of constructing the line then, although it was apparent to him that it was necessary for the Seaboard to join up some of its lateral lines running across Florida if they were



BRIDGE SITE OVER ST. LUCIE CANAL LOOKING NORTH.

to become remunerative, and if the Seaboard was to complete its system, with through service to both coasts of Florida.

The idea slept for several years while the war went on and was followed by the period of rehabilitation and restoration, until finally in 1922, after the Interstate Commerce Commission put out the tentative plan of railroad consolidations which gave the Florida East Coast Railway to the Atlantic Coast Line group, Mr. Warfield looked closely into the situation thus presented. If this grouping plan were fulfilled, it would cut the Seaboard off at Jacksonville as to traffic to and from the east coast of Florida, prevent traffic relations



NEW BRIDGE OVER LAKE WORTH AT PALM BEACH.

with the railroads of Cuba and confine the operation of the Seaboard Air Line in Florida to the west coast.

Mr. Bonsal was asked by Mr. Warfield to survey a line first with a view of extending the Lake Wales-Nalaca line alone and next to survey a line to connect the cross-state line at or near Lake Wales and extending on to Wildwood or Coleman on the main Seaboard line to the east and west. To make the short line to eastern points Mr. Warfield concluded to construct one cut off near Jacksonville and the other near Valrico to shorten the distance both across the state and in

respect to the through line from the east with connections at Jacksonville for the west. This was a bold step forward, as was completely demonstrated when objections were raised to the plans while they were under consideration by the Interstate Commerce Commission, everything possible being done by rival interests to prevent their realization.

The financing of the through line and its cutoffs was the most difficult that was ever presented to the Seaboard's chief executive. For six months the situation was under consideration and without result. The Seaboard's 6 per cent bonds were selling in the market at 63; the equipment of the road was in very bad condition in consequence of Government control and in itself was a problem of magnitude to be solved before things could be restored to pre-war shape. President Warfield then after months of negotiation, established relations with Dillon, Read & Co., bankers, of New York city, who undertook the flotation of the necessary bonds, which were successfully marketed at par as hitherto described.

The approaching completion of the road, therefore, crowns the efforts of several years of strenuous exertions to bring about an increase of railroad facilities in Florida which the public has greatly needed for a long time.

### Training English Textile Operatives.

Manchester, England, December 9—[Special.]—Reference to the shortage of labor in the English cotton industry was made at a meeting of the British Association of Textile Managers by H. P. Greg, a prominent Lancashire manufacturer. Mr. Greg said that it was essential to bring to the surface the thinking capacity of the young operative and to make him master of his job as quickly as possible, and it would pay handsomely to get teachers into the mills. In every department of a Lancashire cotton mill, he said, an operative each day went to the same machine, but the operatives really ought to change their machines daily.

B. Robinson, president of the association, said that the shortage of juvenile labor in the large spinning centers was serious. In the weaving centers, however, the trouble was even greater. He pointed out that Oldham employers had already established a scheme for dealing with school children in their last year at school. Scholars, by arrangement with the authorities, were taken from the schools in groups to the technical schools and attempts were made to interest them in industry. The same course was being adopted in Bolton, and towns like Blackburn and Burnley were asking for information as to the scheme.

### Contract for \$1,500,000 Building at Fort Worth.

Fort Worth, Tex.—General contract has been awarded to the Bellows-McClay Construction Co. of this city, Dallas and Shreveport for the erection of the proposed 12-story building to be erected here by the Fort Worth Club, Amon G. Carter, president, at a cost of \$1,500,000. The building will be of reinforced concrete faced with granite six feet above the sidewalk. From that point to the fifth story ornamental art stone will be used, and from the sixth floor to the roof rough texture buff brick will be used on three sides.

Architecture will be of the Spanish Renaissance type, the club to have its lobby entrance on the 7th street side at the southwest corner of the building. Three elevators will be installed for the exclusive use of the club, which will have available, in addition to other facilities, 44 bedrooms, including eight suites. A portion of the structure will be occupied by a furniture store and a part will be used for railroad offices. Sanguinet, Staats & Hedrick of Fort Worth are the architects.

## Third Power Show at Grand Central Palace, New York.

BIG ANNUAL EXHIBIT OF POWER EQUIPMENT DRAWS LARGE CROWDS—MANY NEW DEVICES SHOWN.

By RICHARD WOODS EDMONDS.

New York, N. Y., December 6.

When 375 manufacturers of machinery and power equipment gather in the Grand Central Palace in New York for their annual Power Show, the array of highly-specialized products they assemble is sure to be broad and diverse. This, the third show of its kind held at the Palace, was indicative of the value of the venture, for it was larger, contained more exhibits and was better attended than was either of the previous ones. Engineers have evidently taxed their ingenuity to devise striking and impressive demonstrations of their products. Glass walls were used freely as sides of boilers, with electric heaters to generate steam, thus permitting spectators to see the inside of the boiler in operation of a sort. Electricity was called upon in many other novel and ingenious ways to approximate working conditions and reveal the possibilities of devices.

Engineers and executives of many large manufacturing and power-using concerns from all over the country, together with some from European countries, visited the show to study and compare the exhibits, and carried away with them many new ideas concerning new equipment for their plants.

Had an engineer of only a generation back dropped into the show he would have been astonished at the large number of operations that are now performed in carrying out processes that in his day were performed as single operations—but less efficiently. Or where the number of operations for a given process had not been increased, the refinements of these operations would be found to have increased greatly. No longer is the air we breathe good enough for the exacting requirements of industrial processes. It must be treated and doctored in a dozen ways, according to the use to which it is to be put. It must be pre-heated before being passed into fire-boxes—an old operation, to be sure, but done now by many new and more efficient devices. Since air has no place in steam lines, it must be removed, and a variety of air traps were on exhibition, some of them being shown this year for the first time. There were air nozzles for spraying air and powdered fuel into fire-boxes. And if the air is to be compressed it must be freed from water and cleansed of dust.

All of this simply goes to illustrate one of the chief general lessons to be derived from the Power Show—the ceaseless drive of engineers for more efficient, economical operation. Every operation performed in the generation, transmission or utilization of power appears to have been analyzed, divided into all its component parts, and each part assigned to some highly-specialized device. One is apt to feel as that Patent Office clerk felt who resigned because all possible patents had been granted, and he was too conscientious to continue drawing a salary he could no longer earn. Yet the drive of competition forces ever greater refinement of processes, and ever greater precision of measurement.

To the correspondent of the *MANUFACTURERS RECORD* two aspects of the show stood out conspicuously. The first was the small number of Southern exhibitors. Six manufacturers represented the vast resources and thriving industries of the South. The Bartlett Hayward Company of Baltimore were exhibiting a new flexible driving shaft joint that will work, not only on a shaft that is not straight, but on one that is slightly out of alignment. The James Clark, Jr., Company

of Louisville, Ky., said to be the first firm in the United States to patent an electrically-driven tool, were showing, besides a full line of drills, grinders, electrical hack-saws, etc., a new, patented, two-pole automatic switch for hand drills. The unique display of the Hollow Ball Company of Baltimore, showing all the steps of manufacture of seamless, plug-less metal balls, attracted much attention. The Reed Air Filter Company of Baltimore was present with a display of their product. The Henry Vogt Machine Company of Louisville, Ky., with their drop-forged steel valves, fittings, boilers, oil refinery and ice and refrigerating machinery, together with the Walsh & Weidner Boiler Company of Chattanooga, with a new, seamless, forged steel header boiler, completed the list of the Southern exhibitors.

In view of the great industrial activity of the South, this scarcity of Southern exhibits at first seemed surprising. It is probably accounted for by the fact that, while there are in the South manufacturers of such equipment as would be suitable for display at the show, most of them find a market for their products within the South or abroad rather than in the North. Possibly such manufacturers are wise in not entering the show, but the fact remains that the engineers and executives of many large Southern consumers of power equipment attend the power shows, and Southern manufacturers thus overlook an opportunity utilized by their Northern competitors to exhibit their products before potential buyers in their Southern markets. However, it is also true that there are many times as many manufacturers of highly-specialized products in the North and East as there are in the South. These annual power shows should serve as a good indicator of the rate at which Southern industry advances beyond the pioneering stage to this field of the products of expensive automatic machines and highly-skilled labor.

The second feature of the show that is bound to strike a Southerner is the prevailing ignorance among these Northern and Eastern manufacturers of the great industrial movement stirring into active life in the Southern states. Not only have many of them ignored the sleeping giant to the south of them, but now that he is stretching his mighty limbs in his awakening, they remain in ignorance. This attitude was in sharp contrast with that of the Northern men who have traveled in the South, for they are enthusiastic over the awakening they have seen there, and the great business opportunities they have been quick to appreciate.

A new and interesting feature of the show was a series of motion pictures and seven illustrated lectures given by as many authorities on their subjects during afternoon and evening. "The World's Advance in the Art of Making Paper Mechanically" was a two-reel pictorial that told its own story of the transition from the slow hand processes to the great, high-speed paper machines of today. "The Behavior of Atoms and Molecules" and "Revelations Made by the X-Ray" were others of the list.

The lectures were designed especially for men who, though not necessarily technical men, were sufficiently interested to give close and thoughtful attention to the speaker. Their educational value was illustrated by the fact that they were attended by several classes of students of technical colleges. This is a feature that appears to hold possibilities of great development and value in future shows.



## Russia As Seen by a Trained Investigator.

Capt. Francis McCullagh, famous war correspondent, for many years with the New York Herald and lately with the London Times and Daily Mail, the man who, it is said, is perhaps more responsible than any other single individual now in public life for the overwhelming anti-radical vote in England, speaking recently at a dinner given in New York by Henry W. Marsh to a few of his associates in the American Defense Society laid special stress on the menace of the Soviet philosophy to the religious and spiritual life throughout the world. In part he said:

"I have come to speak to you tonight of Russia, a great country which resembles the United States in many of its physical features. Like America, it is of vast extent, impregnable, self-sustaining, capable of supporting a population many times greater than its present population. In the matter of physical characteristics there are many points of resemblance between the two countries; but, in the matter of religious belief and of historical and social development, there are, on the other hand, few points of resemblance and many points of contrast.

"It is a curious fact, that the principle of the Super-State, which we find in Muscovite history as early as the time of Ivan the Terrible, still remains under the Bolsheviks. The theory of the Super-State was Lenin's guiding principle. Instead of decentralization, the grant of every kind of freedom (including, of course, religious freedom) and the encouragement of individual initiative, the Bolsheviks have more centralization than the Tzars had, much less freedom, and no permission at all for individual initiative. Thus, Lenin's cure for Russia was merely an intensification of the evils which had, up to that time, prevented Russia from making much progress.

"Despite the general impression to the contrary, Lenin made no original discoveries in the science of government, and his Red bureaucracy rules Russia as arbitrarily as the Tzarist bureaucracy did, the only difference being that one is violently anti-Christian and the other is not. I do not mean, of course, that the Tzars were saints, but most of the Tzars believed in the Russian form of Christianity and did their best to make it prevail in their dominions, while the Bolsheviks, on the other hand, have deliberately set themselves to extirpate Christianity.

"I would ask you to bear in mind what I have just said about the Super-State of Lenin being in many respects, similar to the Super-State of the Tzar—only worse. Just as the Tzars felt that they should not allow the Uniat Church to exist, so the Bolsheviks are absolutely convinced that they should not allow any kind of church to exist. The Communist dictatorship of Moscow thinks that it has the right to interfere even in matters of conscience. It has shown in a hundred different ways that such is its conviction. To mention a few of those ways, it has put up alongside the holiest shrine in Moscow a marble slab bearing the words of Karl Marx: 'Religion is Opium for the People,' and its whole system of legislation and education are directed to the destruction of Christianity.

"Some of you may feel inclined to ask me if this is not a mere passing phase, a mere incident in a revolutionary outbreak. In my opinion it is not a passing phase. It is, on the contrary, a permanent feature of the whole Bolshevik theory of the Super-State, and that theory is absolutely subversive of everything in the shape of liberty of conscience or of worship. The laws of a state formed on the Bolshevik model come inevitably into conflict with the Christian law, and the present war against religion in Russia is a development which might have been foreseen from the moment the

Bolsheviks seized the reins of power. It is a development which you in this country can only regard with abhorrence as a gospel of tyranny, and which is regarded as such by the majority of Christians in Europe, whether those Christians are English Protestants or German Lutherans or Swiss Calvinists or French Catholics.

"In bolshevism there is a good deal of compromise, but it is not the kind of compromise to which we are accustomed in this country. It is a compromise which seeks to lull suspicion with the object of getting home a deadly blow later on. A sort of compromise has been arrived at with capitalism, but this compromise, into which bolshevism has been forced by the necessity of preserving its own existence, means no change of original attitude, for the ultimate purpose of bolshevism is the utter destruction of capitalism. A similar compromise has been made with a section of the Orthodox Church, and in this case, also, the ultimate purpose of bolshevism is the destruction of the Orthodox Church. After an orgy of rapine and murder at the expense of that Church, the Soviet Government consents to tolerate such members of it as allow themselves to be absorbed into the nefarious Bolshevik system. Or, to put it differently, the Bolshevik method is to engraft Communism upon firmly established institutions in the hope eventually of stifling the parent plant. This has been done in the case of the Church, and in the case of the family.

"The Bolsheviks maintain themselves in power by sowing mistrust among their enemies and merciless repression; in other words, the Red Terror.

"I do not believe that during the last thousand years any European Government has made such a really serious effort as the Bolsheviks are making to destroy every form of Christianity, and every development that we owe to Christianity, and, indeed, every religion. The anti-religious excesses committed during the early years of the first French Republic were directed rather against the dominant religion, and no attempt was made to destroy the Christian basis whereon French society was built. In Russia, on the contrary, the very foundations on which we stand are being torn up from beneath our feet, and there is no knowing what is below. The Bolsheviks, in their histories, speak with contempt of the French Revolution as merely a rebellion of the bourgeoisie against the aristocracy and their kind, and they speak with much greater contempt of the Cromwellian and Williamite revolutions as conflicts between the nobility and the country gentry on the one side and the sovereign on the other. They insist that their revolution is quite different, and they are right. It is quite different, for in no previous revolution was there such wholesale nationalization and such an attack on the principle of private property and of the family: Who can foretell the result of this systematic attempt to destroy the religion which created our modern civilization?

"Since the cutting of the Suez Canal gave the world an idea of the marvels which modern engineering can accomplish, all the rulers of the Nile Valley have exhibited a certain amount of nervousness with regard to the Sudan; and, I daresay, a great power in possession of the Sudan could, by diverting the course of the Nile, convert Egypt into a desert. In the same way the present very risky experiment which the Reds are carrying out on the Russian branch of the great river of religious truth which flows to us out of the past, may convert all Russia into a spiritual Sahara. And the disaster will not be spiritual only; it will affect every aspect of life in Russia. It will convert the vast empire of Muscovy not only into a desert but also into a plague-spot menacing all Europe and Asia.

"I lived in Russia six years, and I know that religion is

a factor of enormous political importance there. You may be a Mohomedan, you may be a Hebrew, you may be an agnostic, but if, in considering the Russian question, you leave out of account the religion professed by about 80 or 90 million of the people, you are not a statesman.

"For the first time in European history we have the spectacle of a great nation being rapidly de-Christianized, being taught to repudiate the very essentials of Christianity. Some of the results are already visible, but though the horrors apparent in Bolshevism are very great, they are nothing to the horrors latent in it, or being only slowly revealed. We are, as it were, standing in front of a diabolical apparition whose face, the most dreadful part of it, is being slowly unveiled.

"Trotzky describes the Russian Government's plans for the break-up of the family as cold-bloodedly as if he were a keeper in the zoo talking about the mating of monkeys. In their plans for the abolition of the family, the Bolsheviks have not gone so far as has been reported; they have not established free love; but the tendency of their recent legislation on marriage and education is all in the direction of that most atrocious doctrine of radical communism, the doctrine that children belong absolutely to the state and must be handed over to the state. You will find a project of law on marriage and education in the organ of the Commissariat of Justice, *The Weekly of Soviet Justice* it is called, dated September 13, 1923; and in the official *Izvestia* of May 26, last year, you will find an article by Kalinin, the President of the Union of Soviet Republics, dealing with the question of how to destroy the Christianity of the peasants, as if it were a question of extirpating locusts.

"However, the abolition of the family is still a thing of the future. Let us come to a horror that has actually arrived. We sometimes forget that, till comparatively recent times, slavery was the normal condition of most men and women, not slavery in the metaphorical sense in which alone it is now used, but slavery in the literal sense of that dreadful word, the sense it had in pre-Christian times.

"It took Christianity a thousand years to abolish slavery, which it did at last, not indeed by direct decrees but rather by the creation of an atmosphere wherein slavery withered and finally died. Bolshevism has brought it back, and in some respects the slaves of the Soviet are worse off than the slaves of the ancient Romans, for the Roman slaves belonged mostly to individuals, whereas the Russian slaves belong to the State. Now, an individual has a heart, but a State has none, and this State which the Reds are building up is not only heartless, it has a poison-bag where the heart ought to be.

"Russian workmen cannot change their occupation. They cannot go on strike. They cannot form themselves into associations, except Communist associations. They are herded together like beasts. They are disgracefully underpaid. They cannot write to the newspapers, unless to praise the Government, because all the newspapers are Government property. If they agitate against the Government,—which, by a cruel irony, calls itself 'the Government of the Poor and the Oppressed'—they are denounced as enemies of the revolution, hirelings of the capitalists, and, in extreme cases, are imprisoned or shot without mercy. Only a month or so ago there was a great strike of transport workers in Petrograd, but the meetings of the strikers were broken up by the troops and all the leaders arrested. In March, 1919, the workers at Astrakhan went on strike owing to insufferable economic conditions and non-payment of wages; hundreds of these were shot down or drowned in the Volga. I could give you scores of instances like this. The Soviet Government always takes the same position. It says: 'We are the Workers' Republic. We are the Revolution personified. How dare you oppose the

immutable decision of the workers? How dare you raise your hand against the Revolution?'

"The workers might have something to say to this, but they are not allowed to say it or to print it. And, mark you, the majority of the workmen are now anti-Bolshevist, but as they are unarmed, while the Bolshevik workmen are well armed and drilled and are supported, moreover, by an army which is quite loyal to the Soviet which feeds it well, there is no chance of the non-Bolshevist workmen overthrowing the Government.

"Gentlemen, this whole Russian business is an awful instance of the tyranny of words. This junta of desperate men who have, most of them, nothing in common with the Russian workmen, has only to call itself 'the Workers' Republic' and a large number of well-intentioned enthusiasts throughout the world throw up their hats and cheer."

### **\$1,000,000 Ice Plant for Hialeah, Fla.**

Hialeah, Fla.—Construction of a \$1,000,000 ice plant here will be started within a few days by the South Florida Cold Storage & Ice Co., which has secured a site 590 by 150 feet. It plans a refrigeration and cold-storage plant to cover the entire block. Definite plans have not been completed, although Freeman Bernstein of New York and this city, who will be general manager of the plant, announces that foundations and walls will be constructed for a 4-story building.

To facilitate handling cold storage products, railroad tracks will be constructed through the center of the building. It will have a cold-storage capacity of 200 cars or more and will handle meat, fish and poultry shipments, butter, eggs, fruit and vegetables.

George Gaynor Hyde of Miami is engineer and architect for the company, which has a nominal capital stock of \$1,000,000.

### **Mexico Producing More Oil.**

Monterey, Mexico, December 13—[Special.]—During the first seven months of this year a total of 247 producing oil wells were brought in in Mexico, according to the department of petroleum industry of the Mexican Government. It is stated that these wells had an initial daily production of 811,655 barrels, which was greater by 43,218 barrels than the new daily production of the wells which were brought in during a corresponding period of the preceding year. One of the noteworthy features of the industry at this time is the explorations for oil which are going on in widespread parts of the country. Oil leases to about 100,000 acres of land near Cananea, Sonora, were obtained recently by the Packard Investment Company of Cananea, of which B. A. Packard is the head.

### **Beaumont May Vote on \$650,000 of Bonds.**

Beaumont, Texas.—At a recent meeting of the Beaumont city commission, announcement was made that an election will probably be called in this city on a bond issue of \$650,000 for improvements. In the event bonds are voted, it has been tentatively decided to expend \$300,000 for the elevation of the Southern Pacific railroad tracks, \$200,000 for wharves and docks and \$150,000 for street improvements. Ollie J. Bloyd is city manager.

### **New \$1,000,000 Hotel for Miami Beach.**

Miami Beach, Fla.—A new hotel to cost \$1,000,000 will be erected here by N. B. T. Roney, who has purchased a site from the Miami Beach Improvement Co. The property has a frontage of 575 feet on the ocean and extends back 450 feet to Collins avenue. It is stated that construction will begin at once.



# Two Important Principles of Industrial Location Work.

By H. FINDLAY FRENCH, Director, Industrial Bureau Baltimore Association of Commerce.

Organized work designed to bring about the location of industries in specific communities is still in its infancy.

In the first place, the municipal authorities and business men of few cities have any very definite idea of the advantages to be gained from the acquisition of desirable industries. Although in most communities there is a general feeling that more industries would be helpful, the dollars and cents value to the municipality and to the individual business man is still quite hazy.

In the second place the old methods—if they can be dignified by such name—to attract industrial enterprises are usually not calculated to produce important results. Well financed industries seeking new locations are, therefore, apt to avoid all contact with the usual industrial committee of a chamber of commerce on the ground that the committee would have little information on which the investment of a large sum of money could be based, and also that the contact thus established might result in public or semi-public disclosure of tentative business plans.

It is believed that a change in this situation is just beginning to take place. The number of committees which have visited the Industrial Bureau of the Baltimore Association of Commerce (formerly the Industrial Bureau, Baltimore Board of Trade) and the number of inquiries received from all parts of the country makes it apparent that there is an increasingly lively interest being taken in carefully planned industrial location work.

A little over five years ago the Industrial Bureau was formed in Baltimore along new and experimental lines. The fact that during these five years Baltimore has made remarkable progress in the acquisition of new industries together with the fact that the Baltimore Industrial Bureau has taken an active part in 75 per cent of the total new plant investment made in Baltimore during that time, is an indication that the Bureau was planned along sound lines.

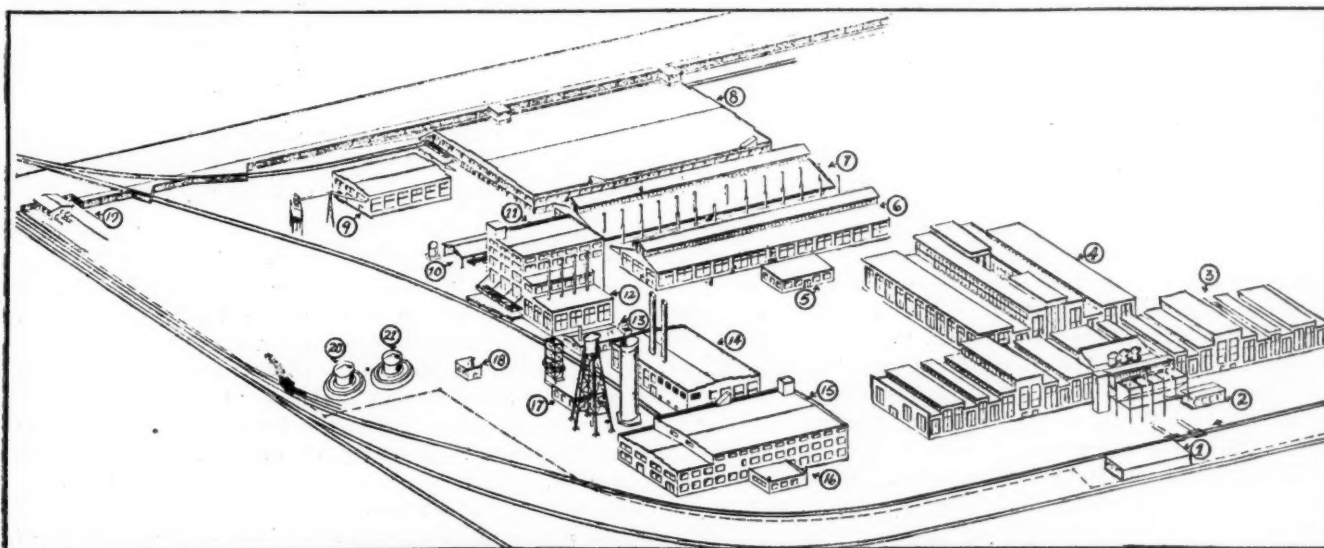
The keystones on which the success of the Baltimore Industrial Bureau has been founded are two in number: 1. Conservative business accuracy in working out, for the individual manufacturer, all costs of assembling, manufacturing and distributing from Baltimore as compared to other cities under consideration. 2. The establishment and maintenance

of an absolutely confidential relationship between the Bureau and the respective manufacturer, no officer or committee ever knowing the name of any manufacturer with whom the Bureau was working until such information was released at the distinct request of the manufacturer.

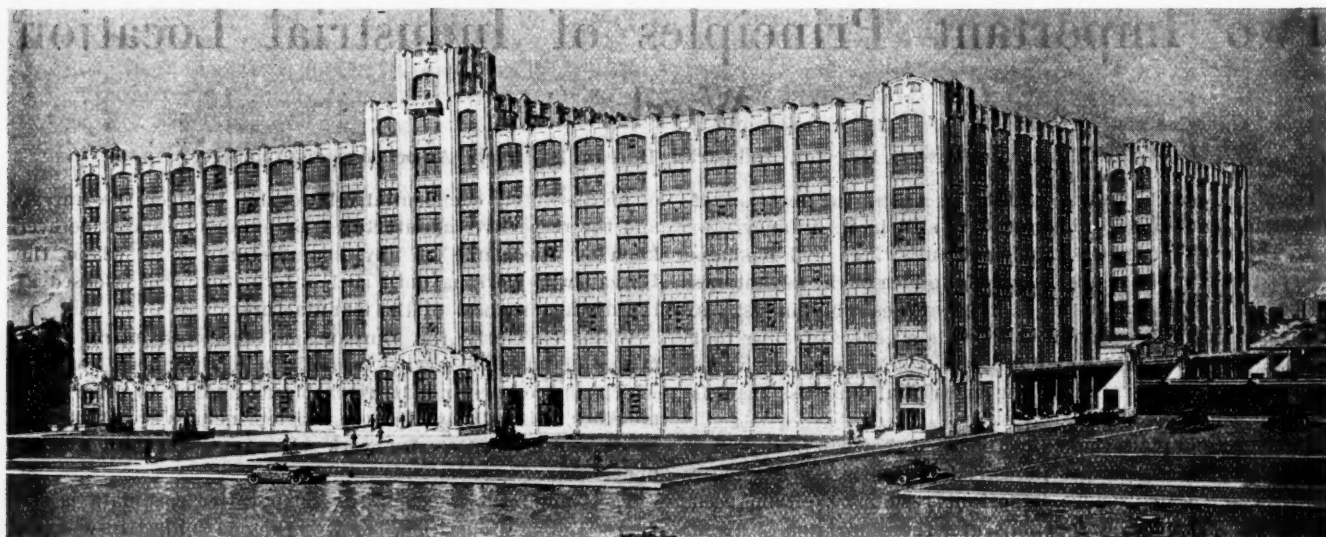
While obviously the Bureau has developed many other angles of business service in addition to the above, some of which may or may not be desirable as applied to other communities, it is believed that the above principles are absolutely fundamental to successful work wherever such work may be undertaken.

The compilation of accurate, comparative cost data is seldom a simple proposition, but it is the one subject in which a manufacturer should be, and usually is, solely interested. The typical, old time industrial committee has on hand information on population, number of miles of paved streets, amount of postoffice receipts and similar general information. Even some of its general information is apt to be out of date or derived (in the case where accurate figures are not readily available), from generous guessing. However, none of this character of information is worth anything to a manufacturer except as a side-light.

When the Industrial Bureau was organized in Baltimore it was commonly thought that most of the necessary industrial information was already in existence, and that it would only be necessary to assemble this information from several sources to make it available for use. As a matter of fact it was found necessary to dig out the information from original sources to be sure of its accuracy. Moreover, even after five years of very active work with a staff of six devoting themselves exclusively to one line of effort, the Bureau does not pretend to be able to answer without special study whether Baltimore conditions will show large net savings for any particular industry. As a result of its experience, gained in part through making cost studies for nationally known concerns which have recently placed important plants in Baltimore, and with its widely developed sources of information, the Bureau is ordinarily able to make such a study within a very short period of time, but the costs and problems of no two industries are alike even in identical lines of business. "Canned" information is a poor and uncertain substitute for



SKETCH OF \$4,000,000 BALTIMORE PLANT OF STANDARD SANITARY MANUFACTURING CO.



VIEW OF EASTERN PLANT OF MONTGOMERY WARD & CO., WHICH WILL SERVE THE ATLANTIC SEABOARD STATES.

accurate data especially compiled to meet the needs of specific problems.

In regard to the establishment and maintenance of a confidential relationship between the Bureau and the manufacturer, this subject is one of the utmost importance. It can readily be seen that the announcement that a large manufacturer is seeking a location tends to stiffen real estate prices and to this extent to make the chances of acquiring the industry less likely. Much more important than this is the disturbance that such an announcement causes in the locality where the plant is operating and in cases where a branch plant is under contemplation such announcements also inevitably cause much irritating and sometimes costly disturbance. Moreover, unless there is an inviolable policy, like that adopted by the Industrial Bureau of Baltimore, of not informing any person whatsoever of the name or character of the prospect, there is constantly danger that a secret, told in confidence, may in a short course of time produce rumors which are almost as bad as newspaper publicity. Every industrial bureau, whatever else it does or does not do, should invariably preserve the same confidential relationship as exists between attorney and client. The Baltimore Industrial Bureau has never had a leak in its information during its existence, although it has worked on some important propositions for more than four years before success was achieved.

Each city or community has its own particular problems to meet in the acquisition of industries, and no inflexible plan can ever be offered to insure the success that the economic opportunities of any particular city or community may warrant. However, as the results achieved by carefully planned work for the acquisition of industries are certain to cause important expansions in this line of effort within the next few years, it is believed that the two major principles herein set out will be found to play an essential part in all sound work for industrial development.

Among the more important companies which the Industrial Bureau has had an active part in acquiring for Baltimore are the American Sugar Refining Company, the General Electric Company, the Standard Sanitary Manufacturing Company, Montgomery Ward & Co. and the Gold Dust Corporation.

Some unsolicited statements concerning the work of the Bureau, from six executives of manufacturing companies having aggregate assets of over \$50,000,000, are as follows:

"I have visited a number of similar institutions and will frankly say that I got more real help and information from the Industrial Bureau in a few hours than I have in as many months in other cities."

"Your compilation of maps, statistics, information, etc., is very complete and impressive, and reflects exceptional ability on the part of your organization."

"The statistics and data concerning Baltimore have been extremely useful and helpful to us in our efforts to quickly understand manufacturing conditions at Baltimore."

"Through the friendly counsel and helpful advice of the Board of Trade many of our problems have already been solved."

"Your report is certainly comprehensive, and gives the manufacturer just the facts he wants to know without a lot of 'hurrah stuff.'"

"We desire to express our thanks for the invaluable service you rendered. Without the assistance of your office and records it would have been impossible for us to have accomplished what we did in the time available."

The following recent statements from out-of-town executives are also interesting in this same connection:

"You can take to yourself a substantial share of whatever credit there may be for our locating in Baltimore."—Montgomery Ward & Co.

"There have been many times during the past summer when it seemed as if, for one reason or another, it would be impossible for this company to procure a site at Baltimore, and it was to a large extent because of your untiring efforts that all obstacles were finally overcome. If I may say so, I think you and your associates are doing splendid work for the city of Baltimore, and in our survey of many different locations throughout the East, we found no service comparable to that rendered by you."—Gold Dust Corporation.

"Your Industrial Bureau of the Baltimore Association of Commerce is to be very greatly complimented on the splendid report on which they have put out. Were other communities as progressive in making a survey of respective territories, we would have available in this country a fund of information which would be invaluable to the industry and commerce of the nation."—Domestic Commerce Division, U. S. Department of Commerce.

Illustrations of two of the many plants brought to Baltimore by this Bureau, both of which are now under construction, indicate the magnitude of some of these enterprises.

### To Build Power Plant on Guadalupe River.

New Braunfels, Texas, December 13—[Special.]—W. B. Tuttle, president of the San Antonio Public Service Co., announces that preliminary plans for the construction of a power plant on the Guadalupe River near New Braunfels for supplying San Antonio with cheaper electric power, have been completed. The plant will be built and operated by the Comal Power Co., subsidiary of the San Antonio Public Service Co.

Present plans call for the erection of a steam power turbine station, a site of 45 acres having been acquired. Date of beginning construction has not been determined.



## QUALITY DAIRY STANDARDS SOUGHT FOR SOUTHERN STATES.

Dairy and Medical Authorities in Convention Move Toward National Campaign for Grading Milk and Dairies—Ice Cream Men Endorse Quality Standard.

By CRADDOCK GOINS.

A national campaign to standardize milk grades and guide milk production was an important feature of the discussion by doctors of the public health section of the Southern Medical Association, in convention at New Orleans November 25, 26 and 27. The association is one of the largest and most active medical groups in the country.

Although tuberculosis is not so common in Southern herds as in the closely housed herds of the North, the situation in the South stands much in need of regulatory steps, convention speakers declared.

Dr. Leslie C. Frank, associate sanitary engineer of the United States Public Health Service, stated that two vital factors must be complied with—production of safe milk and the production of that milk without lessening the supply. Southern dairying at this time needs every encouragement as to increased volume, the convention was told, but the welfare of the industry demands growth along sound lines. Dr. Frank recommended the Alabama plan as the criterion for the national campaign. That state has set up a standard ordinance which asks for co-operation of all communities without compelling it. It calls for each state to grade milk by dairies and to have the state health department grade different cities and communities. Classifications would be A, B, C and D, according to conditions of production.

While Southern cities are steadily moving toward safeguarding the milk supply, onlookers are impressed with the dissimilarity of state laws. This was characterized at the convention as the most serious drawback to safe milk production and distribution. A test recently conducted in Atlanta by Dr. Frank revealed that one-half of 1 per cent of the milk produced is tubercular, despite the utmost care in inspecting animals. And it must be remembered that Georgia has probably the best cattle-inspection laws and provisions for enforcement of any state; this indicated what conditions must be in other states where milk ordinances vary in stringency. Added to this fact, tests show that 13 per cent of the group examined are carriers of typhoid.

Men familiar with conditions in the Northern states, where city dairies are conducted under the most rigid regulations as to producing, pasteurizing, bottling and distributing, are reminded that with the South's naturally good background of cattle somewhat freer of disease than elsewhere, there is every reason why co-operation with authorities seeking regulatory measures should result in creating in the South a situation of dairy purity unsurpassed in any other section.

The convention of the medical officials followed the twenty-third annual convention of the National Association of Ice Cream Manufacturers, meeting in the South for the first annual convention that body has ever held below the Ohio River. The national ice-cream association was featured by the launching of a nation-wide advertising program involving the spending, for present purposes, of \$500,000 in educating the public to the food value of ice cream. The association moved to establish a laboratory to test mechanically refrigerated ice-cream cabinets, a recent innovation which makes it possible to hold ice cream in a hardened condition without ice and salt. Officers were re-elected. W. W. Campbell of Shreveport, La., vice-president of the association, is the first Southern man to hold office.

The national convention followed the twelfth annual con-

vention of the Southern Association of Ice Cream Manufacturers, which formally endorsed the plan of operating under a quality-standard policy that has been in force during the past year. Under this plan members are required to live up to standards of purity and wholesomeness. Seals guaranteeing the product manufactured within the association membership are displayed in advertising material and on shipping equipment.

It was brought out at these conventions that the ice-cream industry in 1923 increased 8.9 per cent in number of establishments—from 2528 establishments reporting to the Department of Agriculture to 2753. Wage-earners increased in that period 14.2 per cent, the maximum month in 1921 showing a total of 26,428 wage-earners as compared with 29,953, the maximum month of 1923. There was an increase of 15.7 per cent in wages, from \$28,236,927 in 1921 to \$32,680,966 in 1923. The total value of products in 1921 was placed at \$213,261,743, and in 1923 the valuation was \$258,579,261, an increase of 21.3 per cent. The value added by manufacture, that is, value of products less cost of material, was shown in 1921 to be \$92,091,816, which increased in 1923 to \$115,579,261.

The officers of the Southern Association of Ice Cream Manufacturers are: S. N. Sutton, Vicksburg, Miss., president; J. D. Kinnett, Macon, Ga., vice-president; J. W. Clopton, Decatur, Ala., secretary. Officers of the affiliated body, The Dixie Flyers, are: H. A. Benners, New Orleans, president; F. E. Robinson, New Orleans, vice-president; P. N. Miller, Birmingham, secretary, and Byron Morris, Jackson, Miss., treasurer.

The Southern convention will be held at Lexington, Ky., next year. The national convention will be at Detroit.

## Cotton-Raising Prizes Awarded.

Metter, Ga., December 12—[Special.]—That a bale of cotton to the acre can still be grown, in spite of the boll weevil, was demonstrated here when \$100 in gold offered by the Bank of Candler County for the farmers producing the most cotton per acre was awarded in the presence of some 300 farmers and business men. A score of farmers appeared with production records totaling more than 1000 pounds of seed cotton to the acre, and the winner of the contest, M. S. Miles, produced 1946½ pounds of seed cotton per acre on his place. L. H. Edenfield, winner of the second prize of \$25, produced 1695 pounds; J. S. Branch, third prize, made 1654½ pounds, and J. C. Bland, fourth, produced 1626 pounds. The judges were J. W. Watson, W. L. Lanier, L. R. Lanier, L. A. Bird and M. T. Holloway, and the figures were checked and verified by the county agent of the county.

Mr. Miles said that among the methods he had followed in producing this record crop were late planting, permitting the weevils to die without finding a food crop when emerging from hibernation; the picking up and burning of all early fallen squares; careful fertilization and cultivation, and the liberal use of calcium arsenate at the right times. He added that with proper methods and good land there was no reason why any farmer should not raise 2000 pounds to the acre and urged his fellow-farmers not to be "bluffed" out of their best money crop by the weevil.

The Candler County Bank will repeat the prize contests.

## Chicago Packers May Build Refinery at Memphis.

Memphis, Tenn.—Working plans for a lard refinery to be erected here by Swift & Co. of Chicago have been received by Memphis contractors and it is thought the new plant will soon be under construction. The proposed building will be one and three stories, the one-story portion to be used for the refinery proper. It will be of concrete and steel and is estimated to cost \$70,000.

## CONSTRUCTION SOON ON BIG ELECTRIC GENERATING PLANT IN TEXAS.

**Initial Installation 40,000 Kilowatts—Ultimate Capacity 150,000 Kilowatts—Boilers Equipped to Burn Lignite.**

By E. B. LEE, Electric Bond & Share Co., New York City.

Construction work will be begun soon on a new electric generating station to have an ultimate installed capacity of 150,000 kilowatts and an initial capacity of 40,000 kilowatts by the Texas Public Utilities Company, an operating subsidiary of the Southwestern Power & Light Co., the latter company being controlled by the American Power & Light Co. The new station is to be located in the Texas lignite fields on the Trinity River near Trinidad, about 65 miles southeast of Dallas. It will be one of the largest, most modern and most efficient plants in the Southwest, and is expected to be in operation during the summer of 1926.

In connection with the plant there will be utilized a natural reservoir approximately one and one-half miles in length and three-quarters of a mile in width, having an area of about 800 acres, which will be used as storage for condensing water. On two sides of this reservoir there is now a natural embankment, and a dike approximately two miles in length will be built to enclose the other two sides. The reservoir will be filled from the Trinity River and the water supply will be maintained throughout the year by pumping from the river when necessary.

The company has bought, or has under option, approximately 3000 acres of lignite beds located in the immediate vicinity of the plant site. These lignite beds are believed sufficient to operate the station for twenty years, while other large beds of lignite not now under option are available in the vicinity. Lignite will be carried from the beds to the generating station by an electric railway.

The plant will be built on the unit plan. The initial installation will consist of two 20,000-kilowatt units, together with four high-pressure, high superheat boilers, each having 20,000 square feet of heating surface. The boilers will be equipped to burn lignite, while provision will also be made in the design of the building so that oil or gas burning equipment may be readily installed later should a change of fuel be found economical.

Power from the station will be fed into the extensive interconnected transmission system of the electric operating subsidiaries of the Southwestern Power & Light Co., including the Texas Power & Light Co., the Fort Worth Power & Light Co., the Wichita Falls Electric Company and the Oil Belt Power Company. This interconnected transmission system covers the district extending from Taylor on the south to Wichita Falls, Denison and Paris on the north, an air-line distance of approximately 225 miles, and from Brownwood and Eastland on the west to Tyler on the east, an air-line distance of approximately 210 miles. The area thus covered is in excess of 47,300 square miles, an area approximately that of New York state. The high-voltage transmission system in this territory, which is now entirely interconnected, aggregates about 1900 miles in length. The companies supply electric power and light service to 150 communities in this territory, and all of them, except 8, are now served from the transmission system.

This extensive transmission system has been built up entirely in the last twelve years. The American Power & Light Co. first became interested in public utilities in Texas, in 1912 and organized the Southwestern Power & Light Co. to finance the purchase and the development of properties. At that time there was not a mile of high-tension transmission system, except for a few interurban railway feeders, in the entire state, all of the electric power and light plants then

in existence being in isolated situations. Many communities were without electric service of any kind. The work of connecting the properties controlled with transmission lines and the building of new generating plants was begun immediately by the Southwestern Power & Light Co.

The construction of the new Trinidad plant will mark another important step in the rapid and extensive electrical development that has taken place in this territory since 1912. The new plant will provide electric generating facilities that will be much needed by the time it is completed to take care of the rapid growth of the territory served, despite the additions that have been steadily made to properties in the past by the operating companies.

## Cotton Production in Brazil.

Center, Texas, December 13—[Special.]—It is not unlikely that Brazil may rise to first place in the countries of the world in cotton production in another 10 years, according to Thomas R. Day, Government director of the cotton industry in that country. Mr. Day, who is a native of Texas and is here on a visit to his old home, says that, although there was practically no cotton produced in Brazil 10 years ago, the crop for 1924 will be around 1,000,000 bales. These bales are smaller than the American standard 500-pound bales. At present all but a small quantity is consumed at home, but English spinners have begun to take some of the production. In Brazil there now are more than 200 textile mills, with 50,000 looms and more than 1,000,000 spindles, while common laborers receive wages equivalent to 30 to 50 cents a day, United States money.

## Six Additional Stories to Cost \$500,000.

Kansas City, Mo.—Contract has been awarded by E. Shukert to Bickel Co. of this city for the erection of six additional stories to the four-story Argyle Building here at the corner of 12th and McGee streets, the enlargement to involve a cost of \$500,000. The present structure occupies a ground area of 98 by 132 feet and the addition will be designed especially to meet the requirements of physicians. Framework will be of structural steel, with reinforced concrete floor slabs, the exterior to be finished in brick and terra cotta. Three new elevators will be installed. Keene & Simpson of this city are the architects.

## To Build \$1,000,000 Apartments at Roland Park.

Plans have been announced for the construction of an apartment building at Roland Park, Baltimore, to cost \$1,000,000. The structure will be built by the Roland Park Apartments Co., M. A. Long, president, and will be five stories, of stucco and brick, and will contain about 75 apartments. Edward L. Palmer of Baltimore is the architect, and financial details will be handled by the Mortgage Guaranty Co., also of Baltimore.

## 35,000-Horsepower Turbine Installed at Badin.

Badin, N. C.—Installation has been completed in the main power-house here of the Tallassee Power Co. of a 35,000-horsepower turbine direct connected to a 23,160 K. V. A. generator. This installation, it is said, completes the equipment of the power-house, which now has a generating capacity of 92,540 K. V. A. or 125,000 horsepower. The new unit will permit the utilization of the high water of winter and early spring.

Contracts aggregating more than \$350,000 have been awarded by the city school board of Charlotte, N. C., for the erection of three school buildings for negroes.



# What Is the Federal Water-Power Act?

By DR. HENRY M. PAYNE, Consulting Engineer to the American Mining Congress.

During the past year, as never before, the attention of the public has been called again and again by the Muscle Shoals controversy, by editorials and by public addresses to the Federal Water-Power Act. The United States is undertaking the greatest water-power development in its history, with 16,000,000 horsepower under construction or licensed.

This Act, a part of the conservation policy of the United States, was seventeen years in the making, and effectually conserves 85 per cent of the hydro-electric resources of the country for the benefit of the people, providing for the greatest possible distribution of power, so derived, over the widest area consistent with the latest development in economic transmission. So many people, however, have only a vague knowledge of the Act, or believe that to bring any water-power development under it implies Government ownership, that it has occurred to the writer to strip of legal verbiage and to reduce to their simplest form the fundamental portions of the Act in order that the casual reader may grasp its purposes.

The Act was approved June 10, 1920. An approved amendment of March 3, 1921, requires power development in national parks to secure a special authorization of Congress. The Federal Water-Power Act provides:

Sec. 1. That the Secretary of War, Secretary of the Interior and Secretary of Agriculture shall constitute the Federal Power Commission, two of whom shall constitute a quorum.

Sec. 2. An executive secretary at \$5000 per year and an engineer officer from the United States Engineer Corps, as needed are provided for.

Sec. 3. Certain terms, such as "Public lands," "Reservations," "Navigable waters," etc., are defined.

Sec. 4. Specifies the powers of the Commission, as:

- (a) To make investigations and collect data.
- (b) To co-operate with other agencies in such investigations, in order to avoid duplication of effort.
- (c) To publish reports for public information.
- (d) To issue licenses to citizens of the United States, or to corporations organized therein, for the development and maintenance of navigation improvements and power plants, and the transmission and utilization of such power, subject to approval by the chief of engineers and the Secretary of War.
- (e) To issue preliminary permits for the protection of applicants pending the completion and submission of engineering data.
- (f) To prescribe rules and regulations for the establishment of a system of accounts, and the maintenance thereof, and providing for examination of such accounts and the submission of proper reports under oath.
- (g) To hold hearings and take testimony in connection with applications for permits or licenses.
- (h) To perform such acts and issue such orders, rules and regulations as may be necessary.

Sec. 5. Provides for priority of applications for license for such period (not exceeding a total of three years) as may be necessary for the completion of engineering data and financial arrangements. These permits are not transferable and are revocable on failure to comply with the regulations.

Sec. 6. Licenses when issued are for a period not exceeding 50 years. They may be revoked only for violation of the provisions of the Act, and may be altered or surrendered only upon mutual agreement between the licensee and the Commission after ninety days' public notice.

Sec. 7. Preference in granting permits or licenses to states or municipalities, providing their plans are equally well adapted to conserve and utilize, in the public interest, the navigation and water resources of the region, the Commission to be the judge as between other applicants as to which

plan is best and the ability of the applicant to carry out such plan; provided, also, that if in the judgment of the Commission the development should be undertaken by the United States itself, surveys and estimates shall be made and submitted to Congress.

Sec. 8. Transfer or sale of the rights licensed, to be subject to the approval of the Commission.

Sec. 9. Each applicant for license to submit:

- (a) Maps, plans, specifications and estimates of cost, which when approved become part of the license, not to be changed without approval.
- (b) Evidence that the applicant has complied with the state laws.
- (c) Any additional information required by the Commission.

Sec. 10. All licenses to be under the following conditions:

- (a) The project shall be best adapted to a comprehensive scheme of improvement and utilization for the purposes of navigation, of water-power development and of other beneficial public uses.
- (b) Except in emergency, for the protection of navigation, life, health or property, no substantial alteration or addition in excess of 100 horsepower to be made without approval, and any such change to be subject to modification.
- (c) Maintenance at all times so as not to impair navigation and to provide for efficient development and transmission of power; establishment and maintenance of reserves for depreciation, and liability for damage to the property of others.
- (d) After the first 20 years of operation, out of surplus earned thereafter, if any, and accumulated in excess of a specified reasonable rate of return on investment, amortization reserves to be maintained or applied as the Commission may direct.
- (e) Annual charges for the cost of administering this Act to be paid by the licensee to the United States, as fixed by the Commission, and covering rental charges for the use of Government dams or other structures; relating to the distribution of power by and for states or municipalities for no-profit purposes, and providing for licenses in projects of not more than 100 horsepower.
- (f) Whenever any licensee is directly benefited by the construction work of another licensee, or of the United States, of a storage reservoir or other headwater improvement, the licensee so benefited must reimburse the owner of such improvement for such part of the annual charges, depreciation, etc., as the Commission may determine. When such sums are paid into the United States Treasury for the benefits derived from Government improvements, they revert (under Sec. 17 below) for further headwater improvements.
- (g) Such other conditions as the Commission may require.
- (h) Combinations to limit the output of electrical energy, or to fix prices therefor, are prohibited.
- (i) On minor projects not exceeding 100 horsepower the provisions of this Act may be waived by the Commission, except the license period of 50 years, and excepting also lands within Indian reservations.

Sec. 11. When the project is in navigable waters, the Commission may require the licensee to:

- (a) Preserve navigation facilities.
- (b) Permit the United States to subsequently construct such facilities.
- (c) Furnish free power for such navigation facilities, whether constructed by the licensee or the United States.

Sec. 12. Provides for participation in the cost of navigation structures by the United States when such cost under Sec. 11 would be excessive.

Sec. 13. Construction to be commenced by licensee within two years from the date of license, and to be prosecuted diligently. This period may be extended once, but not longer than two additional years, and when reasonable diligence has been shown in construction the final period may be extended when not incompatible with the public interests. Failure to begin the work to cause revocation of license on written notice.

Failure to complete the work to cause equity proceedings on request of the Commission, by the Attorney General.

Sec. 14. On not less than two years' written notice upon or after the expiration of any license the United States may take over and operate the project, paying the licensee his net investment, not exceeding a fair value, with reasonable damages, if any, and assuming all of the licensee's approved contracts. Provision is made for equable determination of net investment, etc.

Sec. 15. If the United States does not elect at the expiration of the original license to take over the project, a new license may be issued for another 50 years, or from year to year.

Sec. 16. When, in the opinion of the President of the United States, the safety of the United States demands it, the United States may take over and operate the project as long as necessary, paying upon its reversion just compensation on the basis of reasonable peace-time profit and cost of operation.

Sec. 17. Provides for apportionment of income from licenses under the Act to Indian Reservations, Reclamation Fund, Miscellaneous Receipts, and for the construction, maintenance and operation of improvements to navigable waters.

Sec. 18. Control of navigation facilities by the Secretary of War.

Sec. 19. Public service corporations, association or individuals operating projects under this Act to be amenable to state regulation; or, in the absence of any state regulation, to the Commission itself.

Sec. 20. In the case of interstate power distribution, rates and service shall be reasonable, non-discriminatory and just; the opposite being declared unlawful. The Commission, in the absence of state control, to have supervision, and to regulate the issuance of securities, in accordance with the procedure and practice of the Interstate Commerce Commission.

Sec. 21. Provides for the right of eminent domain; values exceeding \$3000 to be in the jurisdiction of the United States District Courts.

Sec. 22. When the public interest requires power contracts for periods of time beyond the termination of the license, such contracts may be made with the approval of the Commission, and of the Public Service Commission, if any, of the state where made. If the license is not renewed, the United States shall assume and fill such unexpired contracts.

Sec. 23. Provides for the licensing of projects authorized before the passage of the Act; of projects on non-navigable streams, and along state or national boundaries.

Sec. 24. Withdraws public lands from entry when such lands are included in projects under the Act.

Sec. 25. Provides penalties for failure to comply with regulations and orders regarding fishways.

Sec. 26. Authorizes the Attorney General to institute proceedings in the event of violation of terms under which permits or licenses are issued, and gives jurisdiction to District Courts.

Sec. 27. Acknowledges state control of water for irrigation, municipal use, etc.

Sec. 28. Provides for alteration or amendment of the Act, but not so as to affect previous licensees.

Sec. 29. Excepts certain rights granted by Congress in 1913 to the city and county of San Francisco, Cal., and repeals all conflicting acts.

Sec. 30. Calls the entire legislation "The Federal Water Power Act."

The city of Fairfield, Ala., M. W. Pratt, mayor, will open bids January 6 for the purchase of bonds in the amount of \$144,000, recently voted, to erect a grade school building.

## Opposition Steadily Developing

[From the Florida Times-Union, Jacksonville.]

With thirty-eight states looking forward to the assembling of their legislative bodies early in the new year it is very natural that something should be said in the newspapers regarding a proposed Constitutional amendment which may or may not be given attention. The amendment in question, which would be number twenty, if ratified, is very improperly called "the child labor amendment," and it has already been passed upon and rejected by several state legislatures. Arkansas ratified the amendment, some other states have rejected it and Massachusetts has very recently recorded a tremendous vote against it in referendum. But there will be a great deal of talk about the matter during the next few months and the sponsors of the proposed change in affairs that would put the young people of the country directly under the control of Congress are declaring that they will work hard and carry all the states, even those which have turned it down, for the amendment.

In Indiana it is found that the legislature will be advised that the people of the state are not ready for any such drastic legislation as proposed. The Indianapolis News says:

"Proponents of the measure, instead of a child labor amendment, undertook to empower Congress to limit, regulate and prohibit the labor of persons under 18 years of age. As a result they raised not the question of whether this country favors the improper employment of children, but two questions, viz., are all persons under 18 years old children, and, specifically, just what power is granted to Congress by the amendment? The amendment is also aimed at the 'person under 18 years old,' and not the employer. It empowers Congress to 'limit, regulate and prohibit the labor,' not the employment, of persons under 18 years of age."

The News, referring to the action of Massachusetts, is satisfied that this refusal to endorse the measure proposed is not an indication of the desire of those people to impose upon youth, but a denial of the reason for surrender of state authority to Congress in such a wholesale and unusual manner. The News, in conclusion, says:

"No state in our opinion should attempt to give Congress the blanket power to prevent all persons under 18 from laboring. There is probably not an informed person that does not know of instances in which this would work a rank injustice. Congress should have no such power."

Florida's legislators will no doubt hear of the proposed amendment and also will be urged to give this blank check upon the lives of the young people of the state to the Federal Government. There appears to be good reason to believe that Florida will desire to retain some control over the younger generation and refuse to abandon her girls and boys to the absolute direction of the Central Government. Florida's legislature should refuse to ratify the amendment.

## Ice Corporation Increases Capital Stock to \$25,000,000—Plans Extensive Expansion Program.

Atlanta, Ga.—A new charter has been obtained by the Atlantic Ice & Coal Corporation of this city, authorizing an increase in capital stock from \$8,000,000 to \$25,000,000. The company operates plants throughout the Southeast, and it is stated that the stock increase is preliminary to an extensive program of expansion.

Several important developments at present under way include the construction of ice plants at Fort Valley, Ga.; Tampa and Gillett, Fla., and enlargements at Atlanta. These improvements are estimated to cost \$2,000,000, the first three projects being intended to care for fruit shipments, car refrigeration and other uses, as well as for household consumption. Improvements at Atlanta will embrace the enlargement of cold-storage facilities and the installation of new machinery in this and other plants.



### To Establish University and Erect Buildings to Cost \$350,000.

Details are being worked out for the establishment of a new university at Tampa, Fla., to be known as Universitas Illuminati, and for the erection of a number of buildings to house the institution, at an estimated cost of \$350,000. With reference to the undertaking, R. A. Wackerman of Tampa wires the MANUFACTURERS RECORD: "F. O. Adams, Tampa, architect for Universitas Illuminati; three school buildings, two residences, assembly hall, power building, etc.; all stucco; work starts in six months; H. Spencer Lewis, San Francisco, Cal., dean; self, president."

It is announced that the school will be co-educational and for white students only, and that applicants must be 18 years old to be eligible for admission.

### Application of Vacuum to Oil Wells.

A special study of the application of the vacuum to oil wells is being made by Ben E. Lindsley, petroleum engineer of the Department of the Interior, attached to the Petroleum Experiment Station of the Bureau of Mines, Bartlesville, Okla. Mr. Lindsley recently studied the workings of the vacuum system used in shallow fields in the vicinity of Bartlesville and collected data to be used in making decline curves to show the effect of vacuum on production from various leases in this area. Data regarding the effect of vacuum on the gravity of the oil produced were also collected.

### New \$500,000 Apartment Building for Houston.

Plans have been made by the Jacinto Realty Corporation of Houston, Texas, for the erection of the Montrose Boulevard Apartments in that city at a cost of approximately \$500,000. The building will be of Spanish renaissance architecture, four stories and basement, of reinforced concrete and brick construction, and will contain a total of 158 rooms and 40 baths. Space will be provided in the basement for forty automobiles.

John M. Glover of Houston is the architect, and George G. Post & Sons of New York and Kansas City, consulting architects. Bonds to the amount of \$325,000 for financing the building, have been underwritten by G. L. Miller & Co. of New York and Atlanta.

### Report on Steel Ingot Production.

Following is the monthly production of steel ingots from January, 1923, to November, 1924, as reported to the American Iron and Steel Institute by companies which made 94.84 per cent of the steel ingot production in 1923:

| Months<br>1923 | Open-<br>hearth | Bessemer  | All<br>other | Monthly<br>production<br>companies<br>reporting | Calculated<br>monthly<br>production<br>all companies | No. of<br>working days | Approximate<br>daily production<br>all companies,<br>Gross tons |
|----------------|-----------------|-----------|--------------|---|--|------------------------|---|
| Jan. ....      | 2,906,892       | 728,270   | 9,467        | 3,644,629                                       | 3,841,095  | 27                     | 142,263   |
| Feb. ....      | 2,613,564       | 669,903   | 10,797       | 3,294,264                                       | 3,471,843  | 24                     | 144,660   |
| March ....     | 3,046,309       | 799,525   | 12,841       | 3,858,675                                       | 4,066,680  | 27                     | 150,618   |
| April ....     | 2,974,579       | 772,485   | 13,933       | 3,760,997                                       | 3,963,736  | 25                     | 158,549   |
| May ....       | 3,136,558       | 847,418   | 16,719       | 4,000,695                                       | 4,216,355  | 27                     | 156,161   |
| June ....      | 2,821,239       | 737,845   | 15,483       | 3,574,567                                       | 3,767,256  | 26                     | 144,894   |
| July ....      | 2,658,449       | 680,884   | 11,496       | 3,350,829                                       | 3,531,458  | 25                     | 141,258   |
| Aug. ....      | 2,796,370       | 701,059   | 9,326        | 3,506,755                                       | 3,695,788  | 27                     | 136,881   |
| Sept. ....     | 2,562,771       | 613,709   | 8,602        | 3,185,082                                       | 3,356,776  | 25                     | 134,271   |
| Oct. ....      | 2,735,513       | 649,452   | 9,163        | 3,394,128                                       | 3,577,091  | 27                     | 132,485   |
| Nov. ....      | 2,348,361       | 616,335   | 9,309        | 2,974,005                                       | 3,134,321  | 26                     | 120,551   |
| 11 Mos. ....   | 30,600,605      | 7,816,885 | 127,136      | 38,544,626                                      | 40,622,399   | 286                    | 142,036   |
| Dec. ....      | 2,135,898       | 570,004   | 10,912       | 2,716,814                                       | 2,863,266  | 25                     | 114,531   |
| Total .....    | 32,736,503      | 8,386,889 | 138,048      | 41,261,440                                      | 43,485,665   | 311                    | 139,825   |
| 1924           |                 |           |              |   |  |                        |   |
| Jan. ....      | 2,766,534       | 667,032   | 12,577       | 3,446,143                                       | 3,633,639  | 27                     | 134,579   |
| Feb. ....      | 2,902,641       | 695,905   | 14,085       | 3,612,631                                       | 3,809,185  | 25                     | 152,367   |
| March ....     | 3,249,783       | 706,801   | 15,260       | 3,971,844                                       | 4,187,942  | 26                     | 161,075   |
| April ....     | 2,575,788       | 573,381   | 12,356       | 3,161,525                                       | 3,333,535  | 26                     | 128,213   |
| May ....       | 2,080,896       | 425,099   | 6,648        | 2,492,643                                       | 2,628,261  | 27                     | 97,343  |
| June ....      | 1,637,660       | 310,070   | 2,622        | 1,950,352                                       | 2,056,466  | 25                     | 82,259  |
| July ....      | 1,525,912       | 241,880   | 5,162        | 1,772,954                                       | 1,869,416  | 26                     | 71,901  |
| Aug. ....      | 2,042,820       | 361,781   | 5,759        | 2,410,360                                       | 2,541,501  | 26                     | 97,750  |
| Sept. ....     | 2,252,976       | 409,922   | 6,844        | 2,669,742                                       | 2,814,996  | 26                     | 108,269   |
| Oct. ....      | 2,505,403       | 438,468   | 7,030        | 2,950,901                                       | 3,111,452  | 27                     | 115,239   |
| Nov. ....      | 2,479,147       | 459,349   | 8,307        | 2,946,893                                       | 3,107,226  | 25                     | 124,289   |
| 11 Mos. ....   | 25,999,560      | 5,289,688 | 96,740       | 31,385,988                                      | 33,093,619   | 286                    | 115,712   |

### To Build \$2,500,000 Power and Light Unit.

Dallas, Texas, December 13—[Special.]—Adopting the recommendation of John W. Everman, city supervisor of public utilities, the City Commission has granted the application of the Dallas Power & Light Co. to construct an additional unit to its electric power plant here to cost \$2,582,739. This sum will cover the purchase and installation of a 20,000-kilowatt turbogenerator and auxiliaries and all machinery necessary for operating the unit.

Work will begin on the new unit at once, and when completed the plant will be capable of supplying power to Dallas and to outside consumers.



MONTROSE BOULEVARD APARTMENTS TO BE ERRECTED AT HOUSTON, TEXAS.

## Rivers and Harbors Congress Demands Legislation.

In expressed belief that "only earnest and united effort will secure to waterway measures even a chance for consideration" in this session of Congress, the twentieth convention of the National Rivers and Harbors Congress assembled at the New Willard Hotel in Washington, last week, and for two days considered ways and means for obtaining such legislation before March 4. On that date the term of the present Congress expires, and all legislation not enacted during its life must be introduced afresh in the new Congress, scheduled for assembly on December 7, 1925.

Of 37 new projects authorized by the pending Rivers and Harbors bill, 12 are in the South. Of a total of \$53,565,650 for expenditure, \$19,571,100 would go to projects affecting Southern waters. Approximately, 33½ per cent of the pending plans are of importance to the South and something over that percentage in cost.

The locations and costs of the proposed projects in the South in the pending measure are:

|  |            |
|--|------------|
| Cambridge Harbor, Md. ....                                       | \$15,000   |
| Onancock River, Va. ....   | 87,100     |
| Norfolk Harbor, Va. ....   | 541,000    |
| Channel to Newport News, Va. ....                                | 714,000    |
| Inland Waterway from Norfolk, Va., to Beaufort Inlet N. C. ....  | 375,000    |
| Alligator Creek and Four Mile Creek, S. C. ....                  | 51,000     |
| Shipyards River, S. C. ....                                      | 31,000     |
| Fernandina Harbor, Fla. ....                                     | 54,000     |
| Miami Harbor, Fla. ....  | 1,605,000  |
| Bayou La Batre, Ala. ....  | 10,000     |
| Waterway from the Mississippi River to Corpus Christi, Tex. .... | 16,000,000 |
| Buffalo Bayou, Tex. ....   | 88,000     |

The surveys for the South as authorized in the measure are as follows:

**MARYLAND**—Wicomico River; Honga River and Tar Bay; Choptank River; Elk River; Baltimore harbor and channels.  
**VIRGINIA**—Nansemond River; Norfolk Harbor; Scotts Creek (Portsmouth); York River; Pungoteague Creek; Nandua Creek; Occo-hannock Creek; Monroe Bay and Creek; channel to Municipal Boat Harbor, Newport News; Horn Harbor; Cockrells Creek.  
**NORTH CAROLINA**—Morehead City Harbor; South River; Neuse River; Edenton Harbor; Beaufort Harbor and inlet; Knobs Creek; Newport River; Mouths of Roanoke River and Mackay Creek; Channel from Manteo Harbor to Norfolk-Beaufort Inland Waterway; Lockwood Folly River; Elizabeth River; channels from the Inland Waterway, near Beaufort; Shallotte River; North River; Mudd Slue.  
**SOUTH CAROLINA**—Port Royal Harbor and Beaufort River.  
**GEORGIA**—Oconee River; Ocmulgee River; the Altamaha River system.  
**FLORIDA**—Canaveral Harbor; Melbourne Harbor and inlet; New River inlet; Fort Pierce inlet; Channel from St. Johns River to Florida East Coast Canal, near Jacksonville; St. Augustine Harbor; Tampa Harbor (Ybor estuary channel); Pithlachascotee River; Anclote River.  
**GEORGIA**—Flint River.  
**ALABAMA**—Mobile Harbor.  
**LOUISIANA**—Bayou Des Ourses; Mississippi River, between Baton Rouge and New Orleans; Red River, Fulton to the mouth.  
**TEXAS**—Colorado River; Guadalupe River.  
**ARKANSAS**—Spring River.  
**OKLAHOMA**—Boggy River.

The convention lamented the fact that "one year of work on these proposed new projects has been lost by failure of Congress to enact the pending Rivers and Harbors bill" (H. R. 9672), and determined to bend every effort to assure its passage before the expiration of the present Congress' life.

Also before Congress are two measures proposing a Federal bond issue of \$204,000,000 for the completion of projects already authorized.

## New Company to Build Brick and Tile Plant.

Cordova, Ala.—Monroe Aaron and Dr. Borden of this city, with Jerome Edmundson of Birmingham, have incorporated the Cordova Brick & Tile Corporation, to erect a brick and tile plant here and develop 300 to 400 acres of coal, shale and clay property. Preliminary survey of the plant site has been made and the early construction of kilns and installation of machinery will be started. It is stated that 2,000,000 tons of buff burning clay have already been stripped off ready for loading.

## Alabama Power Purchases Properties of Sheffield Company—To Make Service Immediately Available.

Confirming purchase of the properties of the Sheffield Company, operating public utilities in Sheffield, Florence and Tuscumbia, Ala., Thomas W. Martin, president of the Alabama Power Co., Birmingham, Ala., wires the MANUFACTURERS RECORD: "We are acquiring electric lighting, street railway and municipal water systems of the Sheffield Company and plan to make hydro-electric service available from our system within the immediate future, thus affording opportunity for immediate industrial expansion, which will doubtless be greatly extended on the coming in of power from Wilson dam at the end of next year. We have not worked out definite plans beyond this general program."

It is announced that the purchase includes the Sheffield Land Co., holding extensive real estate properties in the Muscle Shoals district, containing more than 5000 lots. The purchase price for the properties is said to be between \$2,500,000 and \$3,000,000.

## New \$1,300,000 Hotel for Roanoke.

Contract has recently been awarded to James Stewart & Co., Inc., of New York, for the erection of the Patrick Henry Hotel at Roanoke, Va., which will be constructed by the New Hotel Corporation at a cost of \$1,300,000, including equipment



PATRICK HENRY HOTEL, ROANOKE, VA.

and furnishings. The building will be eleven stories, of steel, concrete and brick, with concrete foundations, cement and terrazzo floors and composition roof. It will be equipped with metal ceilings, metal doors, vaults, vault lights, ventilators, steel sash and trim and wire glass. W. L. Stoddart of New York, is the architect.

## \$3,000,000 Hotel Projected for Sarasota.

Sarasota, Fla.—Steps have been taken here for the erection of a \$3,000,000 hotel and stock subscriptions to the amount of \$400,000 have been secured. George Thacker, Charles Roland and others have been appointed a committee to designate members of an advisory board whose duties it shall be to outline a tentative charter for the hotel corporation.



## NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

### Wide Opportunities for Industries and Chemists in Mississippi.

H. G. KITCHELL, Delta Machine Works, Greenwood, Miss.

In your News and Views column of October 30, I note with interest "An Invitation to Manufacturers to Visit Mississippi" by Manager Milford Witts of the Chamber of Commerce of Greenville, Miss.

Mr. Witts has spent but one year in this wonderful region, while I have spent thirty-five, and I endorse his invitation. However, I would qualify as to the best line to start with rather than have the condemnation of some manufacturer.

At present the textile line will appeal to the hard-headed manufacturer more than anything else we have to offer, because we have his raw material in abundance, a market established, freight rates reasonable, transportation facilities, both water and rail. All these are ready for him to take advantage of at the start. While he may have some other problems to work out, these are fundamental.

This section is given over to one crop and there is a reason. Everything is in line for it. Planter, labor, buyer, warehouse, banker, compress and transportation, are all established, and it is easy to fall in line when all is fixed and the dinner bell is ringing.

I would invite the attention of elevator men, those interested in grain, also manufacturers and bankers, to look into this section with a view of establishing a market for grain products.

Men interested in vegetables could line up the same way and be able to compete with all markets, for such crops grow here almost spontaneously.

The molasses makers can find things interesting, as every part of the cane stalk enters into a feedstuff for either man or beast, and when lined up with the grain man and the cotton-oil man there is in this a very wide field of possibilities for the young man.

There is room also for manufacturing chemists, those by-product fellows, refiners, and so forth.

Please do not tell "free-trade Democrats" about the fine possibilities of this section, as we have a sufficient number of them here now, and we hope to diversify that crop.

### The Meaning of a Protective Tariff.

J. E. BURLESON, Spruce Pine, N. C.

Your paper is too valuable for any citizen, farmer or business man, to be without. Your views on the tariff, if carried out, would be worth hundreds of millions of dollars to the South and the whole United States. How any American can read your paper and not be convinced, I cannot see.

The low-tariff people talk about the tariff being a tax—can it be considered a tax when the foreigner who ships in the goods has to pay into the treasury the tariff that is levied? The foreigner is paying this money for the right to sell his goods in the United States at the American market, and if he ships them in without a duty he sells them at the price of the foreign market—which goods are produced at the price of the pauper labor of the European countries. We want our labor to be paid good wages, and if the foreign goods come in without a duty, then the wages go down to the level of the foreign labor.

They call the Fordney-McCumber bill high. Do the people

stop to think that under the Fordney-McCumber law over three billion dollars went out of the United States last year to pay for foreign manufactured goods? This shows that we have not yet a sufficient tariff to compete with the foreign prices. Will the voter stop and think of this three billions of dollars going out of the United States, which is forever gone, when if the goods had been produced here we would have had both the goods and the money at home?

### Suggests a Tax on Florida's Phosphate Rock.

C. O. BARTLETT, Breckville, Ohio.

Last year Florida mined 85 per cent of all the phosphate rock produced in the United States. Pennsylvania, the great producer of hard coal, puts a tax on all the hard coal shipped out of the state. Minnesota, the principal producer of iron ore, taxes every ton of ore.

If Pennsylvania, the second richest state in the Union, can tax its coal and Minnesota its iron ore, why should not Florida do likewise on its phosphate rock? Last year Florida produced 2,500,000 tons. According to Government statistics there are now only about 200,000,000 tons left, and at the present rate of consumption this will be entirely used in about 80 years. With the probable increase in its use, which is almost a certainty—in fact, last year's increase was 18 per cent over the year before—it is doubtful if the supply will last 50 years. Therefore, it is vital for Florida to consider most carefully this its most vital asset.

Without commercial fertilizer Florida cannot thrive. For hundreds of years the state was almost dormant, or until its use of commercial fertilizer. Now it is increasing in percentage of wealth faster than any other state. The use of commercial fertilizers is the principal reason for it, and phosphate rock is the main ingredient used in commercial fertilizer. Of potatoes, tomatoes and other vegetables, or sugar cane, as well as all kinds of citrus fruits, scarcely an acre can be successfully grown without using commercial fertilizer. Florida uses more per acre cultivated than any other state, ten times as much as Ohio, and its use no doubt will increase very rapidly.

Much is said about preserving our coal deposits but little about preserving our phosphate rock, although it is far more important. Florida is very fortunate in having its large and rich deposits of phosphate rock, and it stands the state well in hand to preserve it.

### For a South Atlantic Air Mail Service.

NELSON T. STEPHENS, Publicity Secretary, Board of Trade, Savannah, Ga.

I am going to call upon all the clearing-house associations in the Southeast to back up the project of an Air-Mail Service and copies of the resolution are to be sent to all members of Congress from the six states.

It is with a good deal of satisfaction that we note your enthusiastic appreciation of the importance and necessity of the Air-Mail Service, and we trust you will be able from time to time to bring the matter to the attention of your readers both in your editorials and news columns.

Savannah is not seeking this project for any selfish motive, and it is to be hoped that all of the communities in this section will come forward and offer their co-operation.

## THE IRON AND STEEL SITUATION

### Steel Production Shows Increase.

Pittsburgh, December 15.—[Special.]—Reversing the usual experience at this time of year, the production of steel is increasing. The steel industry is now running at about half way between 75 and 80 per cent, against 71.6 per cent as the November average and 66.4 per cent in October. Production of steel ingots in November is reported at 3,107,226 tons, representing a daily rate of 124,289 tons, which is 7.8 per cent above the October rate and 8 per cent above the average rate in the first ten months of the year.

Ingot production for the year will be about 36,300,000 tons, or 17 per cent decrease from 1923. Consumption of steel did not decrease in as great a ratio, as there was a very thorough liquidation of stocks this year prior to the election. The increasing shipments in the past few weeks represent replenishment of stocks, as there is no particular increase in consumption at this time of year.

As to steel consumption prospects for next year, it may be taken that consumption in 1923 and 1924 ran along pretty much the same, not varying anything like production varied, as there were bursts of steel buying and then of liquidation of stocks. The average consumption of the two years is represented by an ingot production of about 40,000,000 tons a year. The present rate is about 42,000,000 tons. A slight further increase, if sustained throughout the year, would mean quite heavy steel consumption. A large increase in the next few months, which some observers are predicting, would mean either a decrease afterwards, to make up, or an abnormal consumption of steel by labor forces being diverted more to steel consumption and away from other activities, for the labor forces of the country have been fairly well engaged right along. There could be, conceivably, a diversion of labor from highway construction to railroad building, or from dwelling houses to steel apartments, office buildings, etc. As to exports, steel exports in the first ten months of this year represented about 6 per cent of the production and about 4 per cent of the capacity, so that an increase of 50 or even 100 per cent in exports would not mean a great deal in point of tonnage.

The Steel Corporation's unfilled tonnage at the end of November made a remarkable showing. The increase during the month was 506,699 tons. For five months, through July, there had been decreases, and the aggregate increase in the next three months was only two-thirds that shown for the single month of November, which was the largest increase since September, 1922, and that is really no case in point, for at that time the great coal strike had just ended, consumers foresaw heavier operations and mills suddenly loosened up as to the production obligations they were ready to assume.

The Steel Corporation's shipments in November were about 70 per cent of capacity, against 66 per cent in October, while the increase in unfilled tonnage represented 38 per cent of capacity, indicating that bookings were about 108 per cent of capacity. In tinplate there was a loss in the order book, as the quarter's business had previously been done and business for the new year was just beginning. In billets and sheet bars there was much the same condition, while in pipe and some other lines there was probably approximately an even break between shipments and bookings. Except for a tonnage of rails, the 500,000 ton increase may be attributed to the four lines—wire products, bars, shapes and plates. In all these there were price advantages, customers being given an opportunity to enter relatively prompt business at the old prices. In these lines the mills are very well sold up.

After a remarkable contracting movement in Connellsville

furnace coke for first quarter the market has been quiet. About 225,000 tons a month was put under contract, something like double the tonnage for the current quarter. About half the tonnage was done at \$3.25 and then prices advanced rapidly, to \$3.50, \$3.75 and finally \$4.00, at which two contracts aggregating 20,000 tons were closed. The few inquiries remaining have been confronted with quotations of \$4.00 and higher and are not prosecuting negotiations with any keenness. Outside of the war period it would be difficult to find a parallel for this advance in contract coke in such a short space of time. The spot furnace coke market has advanced in the past week, being now \$3.50 to \$3.65, with offerings very limited.

Bessemer and foundry grades of pig iron are up 50 cents, basic remaining inactive. The market stands at \$21.50 for Bessemer, \$20 to \$20.50 for Basic and \$21 to \$21.50 for foundry, at valley furnaces.

### Temporary Lull in Birmingham Market.

Birmingham, Ala., December 15.—[Special.]—The lull in the pig iron market is considered as the one that comes before the storm, another buying movement being looked for in the near future. Quotations are on a base of \$20 per ton, No. 2 foundry, and indications are that an advance will soon be noted, \$22 being predicted for February. Sales recently have been for immediate delivery, a number of melters that are using around 50 tons a day pushing their production, especially cast-iron pipe producers. Inquiries are still being received and the first half of the coming year is the period to be covered. The bookings on first quarter are heavy. The probable make is to be increased some; two or three blast furnaces are to be placed in commission on the turn of the year according to present plans. Furnace companies feel sure the market is going to be strong all through the coming year.

Various industries employing iron and steel in their daily operations appear to be firm in the conviction that 1925 will be a good year, in some instances better than 1924. Lettings are being received by the manufacturers of cast-iron pipe for gas and water works, and in addition to the spot business winter buying is looked for shortly; this will mean a good distribution of the orders so that plants can be kept going fairly well.

Plans so far announced as to the lay-offs for the holidays about to set in do not call for much loss of time. The American Cast Iron Pipe Company will be down from December 22 to 27, the labor of the shop forces receiving full pay. A resumption is proposed on December 29, when all labor is expected to be ready for work. Other large plants are counting on as little loss as possible. The smaller industries are going to contract the holiday celebrations even more, some notices indicating that 24 hours for each of the holidays will be sufficient, as there is a need for the products of the various industries. The operation of the blast furnaces is continuous; the make of iron will not be disturbed, and never is except by the causes of necessity of repairing and demand.

The delivery of pig iron is steady and the melt in the home territory very good. This will be continued up to the last week in the year, it is believed. The small consumers have in some instances purchased for a little time ahead, but are not taking the iron in any greater quantity than they are melting. Those who purchased in greater quantities are not looking for deliveries until the turn of the year, so that the expectations are for active moving of iron for an indefinite period.

Twenty-three blast furnaces are in operation in the district.



Nine are producing basic iron, one ferro-manganese and 13 foundry iron. The Tennessee Coal, Iron & Railroad Co. has seven blast furnaces on basic, the Gulf States Company's furnace is on basic and the Woodward Iron Company has one on basic. The Sloss-Sheffield Steel & Iron Co. will probably blow in two furnaces in January.

The steel market is showing continued activity and the various producing and fabricating plants are all operating satisfactorily. The steel-producing mills will lose little time during the holidays. The Bessemer rolling mill is not operating to capacity, some of the departments being down, off and on, every other week or so.

Shipments of small shapes of steel have been very active for the past several weeks.

The coal trade is showing some improvement. The car loadings show that for the first eleven months of the year upwards of 17,000,000 tons of coal were produced in Alabama. It is believed that the year's output will be between 18,000,000 and 19,000,000 tons, against more than 20,000,000 tons last year. The producers reiterate that they look forward to great activity in 1925.

The coke market is not as quiet as it has been, sales being consummated at around \$5 per ton, the quotations continuing at \$4.50 to \$5.25 for foundry coke. Report is current that the Republic Iron & Steel Co. has been considering erection of a by-product coke oven plant in this district. The beehive ovens in Tuscaloosa county, in the properties of the Alabama Company, taken over by the Sloss-Sheffield Steel & Iron Co., will be closed down, the by-product ovens of the company at North Birmingham being able to furnish all the coke needed. The company sells coke on the open market, besides supplying its furnace needs.

The scrap iron and steel market is somewhat improved and an active traffic is looked for early in the coming year. Sales recently have been on the 30-day plan, delivery practically spot. Quotations two weeks ago ascended some and are now firm. Higher prices for pig iron is bringing about some consideration for old material.

Pig iron and iron and steel scrap quotations follow:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$20.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$20.50; iron of 2.75 to 3.25 per cent silicon, \$21.00; iron of 3.25 to 3.75 per cent silicon, \$21.50; iron of 3.75 to 4.25 per cent silicon, \$22.00; charcoal iron, f. o. b. furnaces, \$30.00.

#### OLD MATERIAL.

|                                |                    |
|--------------------------------|--------------------|
| Old steel axles .....          | \$17.50 to \$18.00 |
| Old iron axles .....           | 18.00 to 18.50     |
| Old steel rails .....          | 14.00 to 14.50     |
| Heavy melting steel.....       | 14.00 to 14.50     |
| No. 1 cast.....                | 16.00 to 17.00     |
| Stove plate .....              | 14.00 to 15.00     |
| No. 1 K. R. wrought.....       | 13.00 to 14.00     |
| Old car wheels .....           | 15.00 to 16.00     |
| Old tramcar wheels .....       | 16.00 to 17.00     |
| Machine shop turnings.....     | 7.00 to 8.00       |
| Cast-iron borings .....        | 7.00 to 8.00       |
| Cast-iron borings (chem.)..... | 15.00 to 16.00     |

#### A Book About Baltimore in the '80s.

"The Early Eighties: Sidelights on the Baltimore of Forty Years Ago." This is the title of a trim little book issued by the Mercantile Trust & Deposit Co. of Baltimore, which was chartered in the spring of 1884. President A. H. S. Post dedicates the book thus: "To the men and women of Baltimore who number among their yesterdays the days of four decades ago, and to a younger generation that it may glimpse a picture of the world of their elders in the days of the early eighteen-eighties, this book is dedicated." The frontispiece is a colored picture showing a group, including a hansom cab at the door of the trust company, this entrance-way looking now just as it did then. There are several other illustrations scattered throughout the book all of which are interesting to at least those who knew the Baltimore of olden days. The narrative accompanying the pictures is simply and entertainingly told.

## RAILROADS

### BIG CUTOFF WILL COST \$20,000,000.

#### Illinois Central President Says 22 Miles Will Be Saved on Through Route.

President C. H. Markham of the Illinois Central Railroad Co., Chicago, writes the MANUFACTURERS RECORD concerning the long new cutoff that the company is building for adequately handling traffic both to and from the South, as follows:

"The line will extend south from Edgewood, Ill., to Fulton, Ky., a distance of about 170 miles. The Ohio River will be crossed at Metropolis over an existing bridge of which the Illinois Central is part owner.

"The line will be single track and will involve about 13,000,000 cubic yards of excavation. Generally speaking, the work will not be particularly heavy, except through Pope and Johnson counties in Illinois. In this latter territory it will be very heavy and a large percentage in rock, and will include three tunnels. The estimated cost of the entire line is \$20,000,000. The maximum grade will be three-tenths of 1 per cent and maximum curvature 1 degree 30 minutes.

"The new route will shorten the distance between Edgewood and Fulton by 22 miles.

"Contracts for grading have been awarded to the following: Blythe Brothers & Shugart, Farina, Ill.; John Marsch Company, Inc., 1307 Wrightwood avenue, Chicago; States Corporation, 38 South Dearborn street, Chicago; A. Guthrie & Co., 608 South Dearborn street, Chicago; Flick Construction Co., 133 West Washington street, Chicago; Dominion Construction Co., Niles, Mich.; H. W. Nelson Co., Fulton, Ky.

"This construction is being undertaken to provide additional facilities to meet the growing needs of the territory which our railroad has the privilege of serving, and to enable us to render transportation service efficiently and economically."

#### Railroad Service Extended.

Fort Worth, Texas.—The Fort Worth & Denver City Railroad has made a contract with the Chicago, Rock Island & Gulf Railroad to use the latter's track between Fort Worth and Dallas, 32 miles, and it is stated that the through passenger train service now operated between Denver and Fort Worth will be extended to Dallas. The Burlington already owns a one-half interest with the Rock Island in the Trinity & Brazos Valley, and it is reported that the latter line is to be extended from Waxahachie to Dallas and from Cleburne to Fort Worth.

#### Locomotive Building This Year.

According to data issued by the United States Department of Commerce, shipments of locomotives by the principal builders of this country during the ten months ended with November totaled 1323, of which 1188 were for domestic delivery; the rest to go abroad. There are also unfilled orders for 397 locomotives on the builders' books, of which 331 are for roads in this country.

#### Truck Growers Organizing.

St. Louis.—Through efforts of representatives of the agricultural development department of the Missouri Pacific Railroad, three new truck growing associations have been organized among farmers in Louisiana, according to the Missouri Pacific Magazine. They are located at Glenmora, Grayson and Kelly, and plan to promote growing of truck.

## BIG RAILROAD MERGER UNDER WAY.

### New Orleans, Texas & Mexico Railway and International-Great Northern Railroad Go to Missouri Pacific System.

The Interstate Commerce Commission last week approved the proposed purchase of the New Orleans, Texas & Mexico Railway, or Gulf Coast Lines, by the Missouri Pacific Railroad Co., and also the proposed purchase of the International-Great Northern Railroad by the New Orleans, Texas & Mexico Railway Co., prior to its acquisition by the Missouri Pacific. There will now be added to the Missouri Pacific system 2333 miles of line thus: New Orleans, Texas & Mexico Railway, 1173 miles; International & Great Northern Railroad, 1160 miles. Therefore, when the entire plan is fulfilled the Missouri Pacific Railroad Co. will have a total of 9697 miles of lines, but its control of the Texas & Pacific Railway and its share in the control of the Denver & Rio Grande Western Railroad and the Western Pacific Railroad will make an aggregate of more than 14,000 miles of lines, because the use of these controlled roads will really be a part of the company's already extensive system.

In giving its approval to the plan the Interstate Commerce Commission said that the consolidation of these three roads would result "in establishing a complete and well-rounded railroad system connecting Mississippi River gateways with the principal Texas cities, Gulf ports and the Mexican border."

The Missouri Pacific, according to the announced terms of the deal, will pay \$120 per share for the stock of the New Orleans, Texas & Mexico Railway, providing funds therefor by the sale of a new issue of securities, consisting of \$18,000,000 of 7 per cent 15-year notes.

Acquisition of these two lines will be of great advantage to the business interests of St. Louis, Memphis, Little Rock, Kansas City, Omaha and other cities served by the Missouri Pacific. It throws open to them over the Missouri Pacific all Gulf ports of importance from New Orleans to Brownsville, on the Mexican border at the mouth of the Rio Grande River, with the exception of Port Arthur. Besides New Orleans and Brownsville, the Gulf Coast Lines connect with the seaports of Galveston, Port O'Connor, College Point and

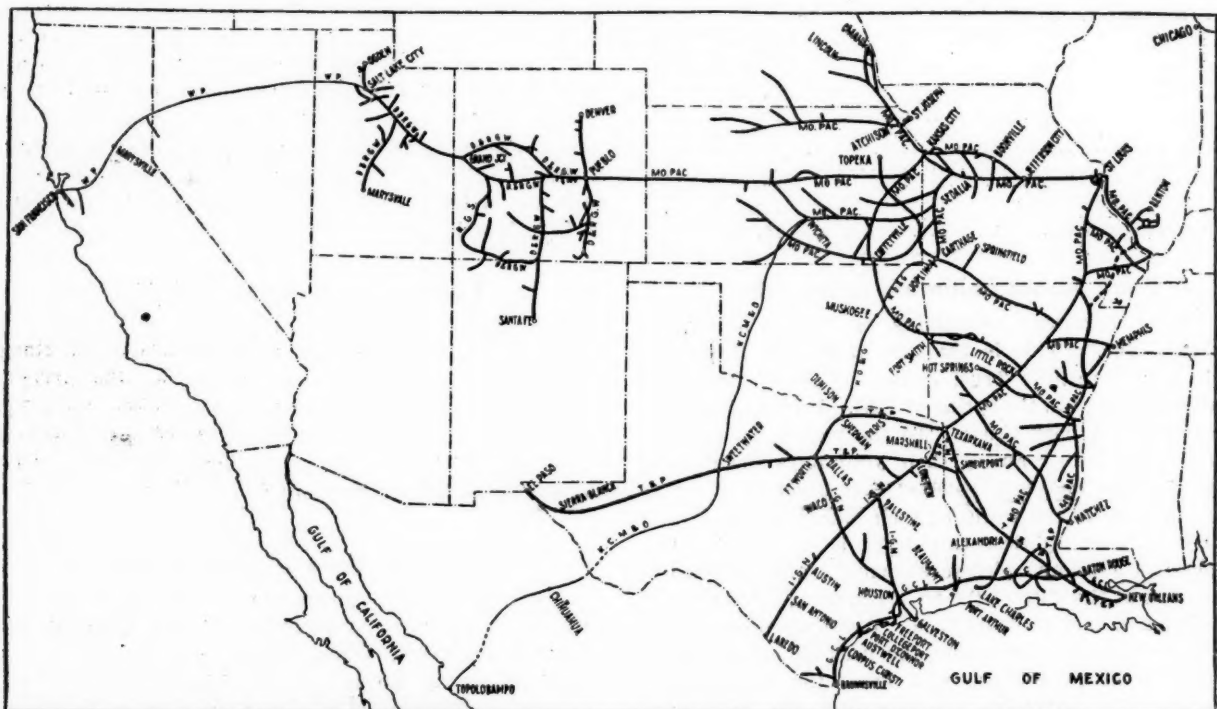
Corpus Christi. Lake Charles, La., is already reached by the Missouri Pacific.

The new system will have two lines into Mexico, one by way of the International-Great Northern at Laredo on the Rio Grande and the other via the Gulf Coast Lines, which skirt the Gulf of Mexico from New Orleans to the border city of Brownsville. Approximately 72 per cent of the traffic between the United States and Mexico passes through the Laredo gateway. The Missouri Pacific is a short route between that point and St. Louis.

The Gulf Coast Lines and International-Great Northern traverses a territory extremely productive in cotton, fruits and vegetables. Seventy-five per cent of this crop can be handled by the Missouri Pacific at an estimated saving of about 100 miles in the haul. Through such gateways as St. Louis, Memphis, Kansas City and Omaha the Missouri Pacific is in position to furnish the Gulf Coast Lines and International-Great Northern considerable traffic in grain, products of mines and manufactured goods which to a great extent are not produced in Texas. Thus the traffic of each set of carriers supplements that of the other.

The consolidation should prove a big factor in the development of the lower Rio Grande Valley. There are 225,000 acres in this Valley served exclusively by the Gulf Coast Lines on which fruits and vegetables are raised, the waters of the Rio Grande River supplying irrigation. In the past season 12,000 carloads of this produce was shipped. There are 25,000 acres of citrus trees not yet in full bearing. The yield of vegetables and fruits per acre in this productive territory is substantially as large as in southern California and it has the advantage of being much nearer the Eastern markets.

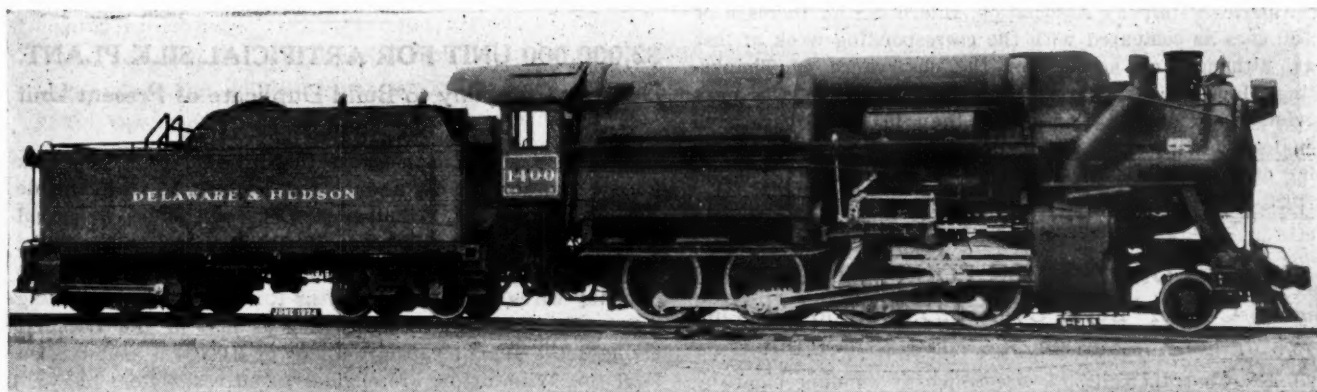
The Missouri Pacific already owns a controlling interest in the Texas and Pacific. In conjunction with the Western Pacific, it recently purchased the Denver and Rio Grande Western, so control of the Gulf Coast Lines, with the International-Great Northern, gives the Missouri Pacific system a combined mileage of main track alone of 14,254 miles as follows: Missouri Pacific proper, 7364 miles; Denver and Rio Grande Western, 2604; Texas and Pacific, 1953; Gulf Coast Lines, 1173; International-Great Northern, 1160.



MAP OF ENLARGED MISSOURI PACIFIC SYSTEM AND CONTROLLED LINES, TOTAL, 14,254 MILES.



## NEW LARGE AND REMARKABLY POWERFUL LOCOMOTIVE



The accompanying picture shows the new locomotive development by the Delaware & Hudson Company, whose lines extend from Wilkes-Barre, Pa., and Albany, N. Y., to Montreal, Canada, and which was described in the MANUFACTURERS RECORD of last week. It carries 350 pounds steam pressure as compared with about 200 pounds of an ordinary locomotive of large size, and it is estimated by the railroad officials that the economies which it will make possible will also make it about twice as efficient as other railroad engines. The unusual appearance of this locomotive is a result of the devices that give it such great capacity. In its operation the steam is used twice before being exhausted into the air. The engine, in addition to a number, was also given a name, "Horatio

Allen," in memory of the first engineer of the company, and who afterward, it is especially interesting to observe, went to Charleston and designed and built locomotives for the South Carolina Railroad. The weight of the engine alone in working order is 174 tons; weight of tender 99 tons; total weight of engine and tender 273 tons. The boiler is 62 inches in diameter; the firebox is 11 feet 5 inches long and 6 feet 3 inches wide. Driving wheels are 57 inches in diameter. The high pressure cylinder is 23½ inches in diameter; low pressure 41 inches; the stroke is 30 inches. Total heating surface is 3200 square feet, besides the superheater, which has 579 square feet of heating surface. The engine is of the Consolidation type, as is shown by the number and arrangement of its wheels.

### Railroad Appointments.

Several railroad appointments have recently been announced as follows:

Southern Railway—G. L. Sitton to be chief engineer maintenance of way and structures at Charlotte, N. C., to succeed J. B. Akers, promoted.

Chesapeake & Ohio Railway—N. F. Brown to be traveling passenger agent with office at Cincinnati.

Seaboard Air Line Railway—E. H. Finney to be commercial agent at Palmetto, Fla.; and W. H. Stephens to be commercial agent at Sarasota, Fla., at which latter point, according to a press report from there, the Seaboard will make about \$40,000 worth of improvements.

### Heavy Traffic in Texas Will Soon Compel Double Tracking.

Austin, Texas, December 15—[Special.]—With the continued development of the agricultural resources of Texas the time is near when the railroads in the state will have to double-track their lines to provide facilities for handling the enormous freight traffic, according to F. G. Pettibone, vice-president and general manager of the Santa Fe system in Texas.

"The railroads of this section have had a most prosperous year," Mr. Pettibone said, "and with the earnings can make a start toward longer and more sidings, the initial step toward double tracking and of trunk lines to tidewater. The time has almost arrived for a second track. Our tonnage has grown to that point and with our earnings we can begin extending our sidings. It will bring stations closer together as to time and finally terminate in connecting such passing tracks into a second main line.

"Our rails must be made heavier to sustain the great locomotives we are acquiring and must acquire to handle the business. It is true some of our lines have 90-pound rail, but with the heavy engines and increasing business we will

have to use 110-pound steel. It is inevitable. By building longer sidetracks and more of them we can handle trains faster. The strong motive power will also enable us to put the trains over the road much more rapidly. That will help the shipper."

### PROSPERITY OF THE RAILROADS.

Although Traffic Has Not Been so Big as Last Year, Efficiency Has Increased.

Class 1 railroads, with a total of 236,172 miles of line, had in October aggregate operating revenues of more than \$572,000,000, according to reports compiled by the Bureau of Railway Economics, Washington, D. C., or over \$15,000,000 less than in the corresponding month of last year, but their operating expenses for the same month were only something in excess of \$403,000,000, showing a reduction of more than \$41,000,000. There was thus a decrease in the first total of 2.6 per cent and in the latter of 9.4 per cent. Net operating income for the month totaled over \$127,000,000, which was an increase of more than \$23,000,000 as compared with October of last year. The decrease in operating expenses was due in part to a reduction of 12.5 per cent in maintenance; maintenance for the first ten months of this year, which includes October, showed a reduction of 10 per cent. The roads in the Southern district had a net operating income of something more than \$13,798,000 in October, or over \$200,000 more than in the same month of last year; freight traffic showed an increase of 2.5 per cent with the same comparison: Net operating income of the Southern roads for the first ten months this year was over \$115,000,000, an increase of over \$7,300,000 in comparison with the same period of last year. All these roads of Class 1 for the first ten months showed net operating income of over \$805,000,000, which was about \$21,000,000 less than for the same period of last year.

Loadings of revenue freight on the railroads during the

week ended November 29 totaled 878,631 cars, according to reports filed by the companies with the car service division of the American Railway Association, this being an increase of 43,550 cars as compared with the corresponding week of last year, although, on account of the observance of Thanksgiving Day, it was over 131,000 cars less than the next previous week of this year. More than 45,000,000 cars have been loaded with revenue freight since January 1 last, this being only about 1,450,000 cars less than for the same period of 1923, which was the greatest traffic year on record.

### BIG ORDERS FOR EQUIPMENT.

#### Illinois Central Buys Over \$25,000,000 in One Month—Missouri Pacific Buys \$9,000,000.

Illinois Central Railroad, according to announcement by President C. H. Markham, placed orders during November for more than \$25,000,000 of new cars and locomotives as follows: 2000 composite box cars of 40 tons capacity, \$4,460,000; 4000 composite gondola cars of 50 tons capacity, \$8,112,000; 200 steel underframe stock cars, \$401,000; 200 express refrigerator cars, \$917,000; 25 Mountain type locomotives, \$1,691,375; 3 steel parlor cars, \$114,000; 30 steel passenger cars, \$786,750; 8 steel passenger compartment cars, \$220,800; 6 steel passenger chair cars, \$170,604; 9 steel baggage cars, \$170,001; 10 steel baggage-mail cars, \$221,740; 215 steel passenger cars equipped for electric operation in suburban service, \$8,250,000—total, \$25,515,870. The company has been authorized to sell \$12,945,000 of equipment trust certificates in connection with these purchases.

Missouri Pacific Railroad has also just announced the purchase of 50 more locomotives, 3000 freight cars and 40 cabooses at a total cost of about \$9,000,000. Moreover, the company will soon be in the market for 40 all-steel passenger cars and 1000 coal cars. The orders just placed make a total of 100 locomotives and 6000 freight cars bought since July 1.

President W. J. Harahan of the Chesapeake & Ohio Railway Co. has announced the award of contracts for new rails as follows: Illinois Steel Co., 12,147 gross tons; Inland Steel Co., 12,147 gross tons; Bethlehem Steel Co., 5908 gross tons. The Hocking Valley Railway of this system has also let a contract for 5000 gross tons of rails to the Carnegie Steel Co. Deliveries on all these orders is to be made during January, February and March.

Southern Pacific Railway has ordered 15 locomotives of the three-cylinder 4-10-2 type from the American Locomotive Co.

St. Louis Southwestern Railway is reported in the market for 1200 cars.

Norfolk & Western Railway has asked the Interstate Commerce Commission for authority to issue \$6,000,000 in equipment trust certificates, according to a report from Washington.

Florida East Coast Railway has ordered 6 eight-wheel switching locomotives, and Louisville & Nashville Railroad has ordered 8 of the same type from the Richmond (Va.) works of the American Locomotive Co.

Southern Railway has ordered 55,000 tons of rails for next year's delivery, of which 45,700 tons will be rolled by the Tennessee Coal, Iron & Railroad Co., 6500 tons by the Bethlehem Steel Co. and 2800 tons by the Illinois Steel Co.

Texas & Pacific Railway has been authorized to issue \$3,285,000 of equipment trust certificates.

According to a press report from Detroit, Henry Ford is having built for the Detroit, Toledo & Ironton Railroad what will be the largest electric locomotive in the world. It will be 117 feet long and will weigh 340 tons. The engine will be used in freight service and will have 16 pairs of driving wheels and an equal number of 250-horsepower motors, or 4000 total horsepower.

## TEXTILE

### \$2,000,000 UNIT FOR ARTIFICIAL SILK PLANT.

#### Du Pont Company to Build Duplicate of Present Unit in Tennessee.

Regarding the announcement that the Du Pont Fibersilk Co. of Buffalo, N. Y., a subsidiary of E. I. Du Pont de Nemours & Co. of Wilmington, Del., will erect a second unit to its artificial silk plant at Old Hickory, Jacksonville, Tenn., near Nashville, at a cost of more than \$2,000,000, the company wires the MANUFACTURERS RECORD: "We are adding a second unit of same construction as first at Old Hickory, giving total annual capacity there of 3,000,000 pounds; Du Pont Co., Wilmington, are engineers and contractors."

Construction of the first unit has been in progress for a number of months and it is estimated that the cost of this will reach \$4,000,000. The second unit, it is said, will give the plant a capacity equal to that of the company's plant at Buffalo.

Processes for the manufacture of artificial silk are said to require a large amount of pure water and this will be supplied by the Cumberland River, on which the plant is located. It is stated that wood pulp, from which the silk is made, will come from the spruce forests of Maine at the outset, but it is understood that investigations have been made for suitable wood nearer the plant.

### Will Build \$300,000 Unit to Hosiery Mill.

Chattanooga, Tenn.—A new unit to cost \$300,000 will be erected here by the Smith Hosiery Mill, which plans to largely increase the production of its plant. A building 50 by 270 feet will be erected, three stories, of concrete construction, special consideration to be given to lighting facilities. About \$75,000 worth of machinery will be installed.

Directors of the company plan to increase its capital stock in order to meet the requirements of the proposed expansion program.

### Will Build Mill to House 6000 Spindles.

Plans are being made by J. E. Sirrine & Co. of Greenville, S. C., for the proposed Ora Mill buildings at Shelby, N. C., to accommodate 6000 spindles. Regarding the new enterprise, J. E. Sirrine & Co. wire the MANUFACTURERS RECORD as follows: "Ora Mills, standard mill construction, one story, 138 feet wide, 335 feet long; warehouse 75 by 100 feet; contracts for mill and equipment not awarded."

The new mill, it is understood, will produce standard print cloth goods.

### Installing Additional Machines in Benton Mill.

Benton, Ky.—Plans have been made by the Paducah Hosiery Mills to install forty new machines in the Benton branch, of which 25 will be automatic ribbers and the remainder of the regulation type requiring individual operators. This plant is at present performing the operations of looping and knitting hosiery feet, but it is expected that other processes will be added, including dyeing and drying plants and box and shipping departments, so that it may turn out the finished product.

Michael & Bivens, Inc., of Gastonia, N. C., have closed a \$9000 contract with Shelby Cotton Mills, Shelby, N. C., for installing switchboards, reorganizing and installing motors and installing a modern lighting system throughout the mill. They have also contracted with the Pageland Cotton Mills, Pageland, S. C., for installing motors and a lighting system.



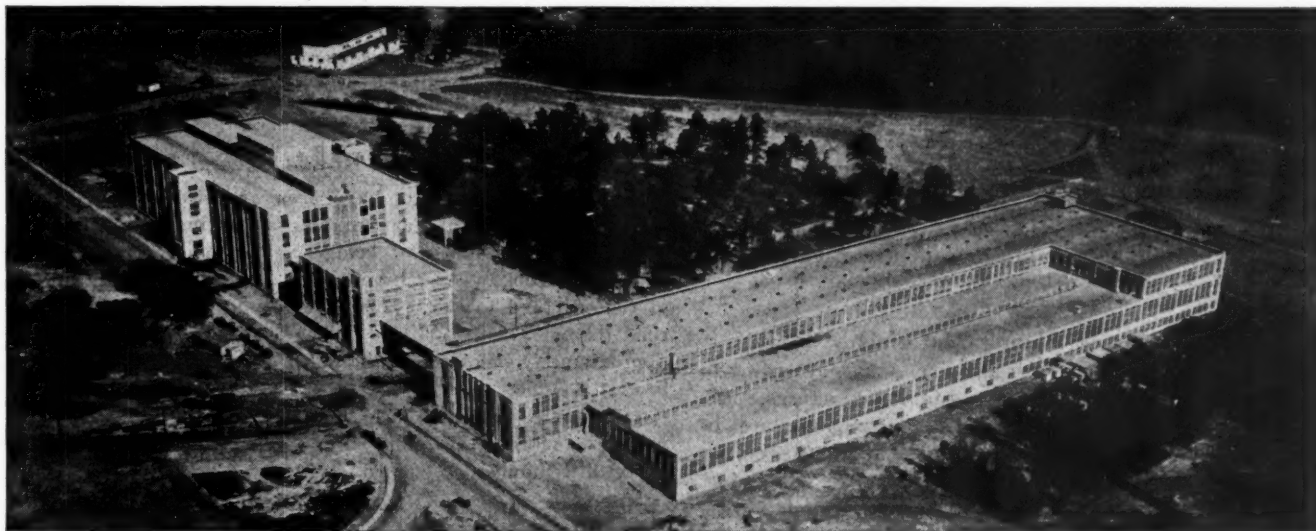
# **PACIFIC MILLS' \$5,000,000 PLANT, LYMAN, S. C.** Equipped for Cotton Goods Production, Bleaching and Finishing—500,000 Square Feet of Space.

The accompanying photographs show the new \$5,000,000 textile plant and mill village of the Pacific Mills at Lyman, S. C. Operations began a few months ago. As previously detailed in the MANUFACTURERS RECORD, the plant has a total floor space of 500,000 square feet, including the cotton mill, storehouse and bleachery.

The largest structure of the plant is the bleachery and finishing building, which is about 600 feet long and 200 feet wide, a portion being two stories in height and the remainder

In addition to these structures, there has also been erected a five-story reinforced concrete building for cotton storage, in which is located the opener-room, and a boiler plant to furnish heating and process steam only, electric power being purchased. A large filter plant has been constructed on the Middle Tyger River, which runs through the property, and filtering and pumping capacity of over 2,000,000 gallons of water in ten hours is available for the plant. A total of more than 300 dwellings, community-house, church and school have also been erected.

Construction of the plant was handled in its entirety by Lockwood, Greene & Co., engineers, of Boston and Atlanta. Parklap, Inc., of New York, was the general contractor for the erection of the plant buildings, and the Minter Homes Co.



GENERAL VIEW OF \$5,000,000 PLANT RECENTLY COMPLETED AND PLACED IN OPERATION.

one story and basement. The two-story part has been so constructed that it may be extended to a total of four stories, while the entire building may be extended on two sides. The principal manufacturing building is the cotton mill, erected to house 32,000 spindles and accompanying looms. It is of structural steel, with both exterior and interior columns encased in concrete, giving it the appearance of a concrete structure.

All cotton-manufacturing processes are confined entirely to this building, including picker-room and dust cellar. The ultimate capacity of the bleachery will be 1,250,000 yards weekly and that of the cotton mill 100,000 yards.

of Greenville, S. C., for the dwellings. Structural steel was supplied by the McClintic-Marshall Co., Pottstown, Pa.

## **\$1,500,000 Cotton Mill Projected.**

The construction of a cotton mill costing \$1,500,000 at Asheville, S. C., is proposed by local interests and New England mill owners, according to a statement issued last week by the Chamber of Commerce. The proposed mill would have ultimately 30,000 spindles. Construction details have not yet been worked out. Steps have been taken towards raising the necessary capital.



SHOWING THE LAYOUT OF THE NEW MILL VILLAGE—PLANT IN RIGHT BACKGROUND.

# GOOD ROADS AND STREETS

## Road Builders' Association Program.

The complete program for the annual convention of the American Road Builders' Association, Chicago, January 6, 7 and 8, has just been announced by Prof. T. R. Agge, chairman of the program committee. All sessions will be held in the Congress Hotel. Thomas H. MacDonald, chief of the United States Bureau of Public Roads, will disclose some of the plans of the Federal Government for highway construction after the opening address of President J. H. Cranford.

Among the other speakers and their subjects will be:

"Impressions of English Highway Practice," Austin B. Fletcher, consulting engineer, Bureau of Public Roads; "Are State Highway Programs on a Sound Financial Basis?" H. R. Trumbower, economist, Bureau of Public Roads; "Legal Aspects of Trunk Line Roads Through Cities and Villages," Samuel K. Markman, Chicago; "Suggested Revisions in Brick Paving Practice," W. D. P. Warren, Decatur, Ill.; "Relation of Traffic Surveys to Highway Programs," William H. Connell, engineering executive and deputy secretary of highways, Pennsylvania; "The Evolution of Highway Traffic," Arthur H. Blanchard, University of Michigan; "The Contribution of Research to Highway Progress," Frank Page, chairman of North Carolina Highway Commission and "Form Setting and Its Relation to Riding Qualities of Concrete Pavements," C. N. Conner, state construction engineer, Raleigh, N. C.

## Census of Paving Materials.

The Department of Commerce announces that, according to data collected at the biennial census of manufactures, 1923, establishments engaged primarily in the manufacture of paving materials reported products valued at \$71,648,660, an increase of 17.2 per cent as compared with 1921, the last preceding census year. This industry classification covers establishments whose principal products are paving blocks (including granite but not including other forms of stone) and paving materials of all classes, mixed and unmixed, for streets, sidewalks and floors.

In addition, paving materials were manufactured to some extent as secondary products by establishments engaged primarily in other industries. The value of such products thus made outside the industry proper in 1921 was \$2,797,639, an amount equal to 4.6 per cent of the value of products reported for the industry as classified. The corresponding value for 1923 has not yet been ascertained, but will be shown in the final report of the present census.

Of the 626 establishments reporting for 1923, 140 were located in Pennsylvania, 64 in Ohio, 49 in New York, 36 in Missouri, 34 in New Jersey, 2 in Illinois, 24 each in California and Indiana, 18 each in Kentucky and Maryland, 17 in Massachusetts, 15 each in Virginia and Wisconsin, 14 in Tennessee, 13 in Iowa, 12 each in Connecticut and Kansas, 11 in Texas, 9 each in North Carolina and Oklahoma, 8 in West Virginia, 7 in Oregon, 6 each in Alabama, Minnesota and Nebraska, and the remaining 34 in 12 other states. In 1921 the industry was represented by 653 establishments, the decrease to 626 in 1923 being the net result of the loss of 85 establishments which had been included for 1921 and the addition of 58 which had not been classified in this industry for that year. Of the 85 establishments lost to the industry, 21 had gone out of business prior to the beginning of 1923, 28 were idle during the entire year, 34 reported products valued at less than \$5000 (no data are tabulated at the biennial censuses for establishments with products under \$5000 in value) and 2 were engaged in the manufacture of products other than paving materials in 1923 and were, therefore, transferred to the appropriate industries. Of the 58 establishments not previously classified in this industry, 55 were new to the census and 3 manufactured other products than paving materials in 1921.

## Causeway Contracts Total \$670,700.

Miami, Fla.—Subject to the validation of a county bond issue, Dade County Commissioners have awarded contract to the Comer-Ebsary Foundation Co. of this city for widening the causeway from Miami to Miami Beach at a cost of \$540,000, and to the George O. Reid Co. of Michigan City, Ind., at \$130,700 for building two bascule bridges.

A plan has been presented to the commissioners by the Miami Beach Electric Railway Co. whereby the company will finance the double-tracking of the railway and paving between the tracks with asphaltic concrete, with the understanding that the county will reimburse the railway by remitting tolls for ten years and reducing tolls from one and one-half cents for each passenger to one cent after the ten-year period lapses during the life of the company's franchise.

## Contracts for Georgia Roads Exceed \$300,000.

Atlanta, Ga.—Contracts have been awarded by the State Highway Department for building approximately 24 miles of road and a number of bridges, at a total of more than \$300,000. Work will embrace about ten and one-half miles of top-soil road to cost \$77,901; nearly 12 miles of sand-clay road to cost \$78,610, with a timber bridge to cost \$6070, and approximately one and a half miles of penetration macadam to cost \$36,160.

A concrete and steel bridge in Gordon county, with approaches, will cost \$75,249, and two bridges in Lowndes county, with a number of culverts, will cost \$33,274.

## Paving Brick Association Officers.

The annual meeting of the Eastern Paving Brick Manufacturers' Association was held in New York city December 9, with the election of officers for the coming year as follows: President, R. L. Winslow, New York; treasurer, R. T. Hutchins, Wilkes-Barre, Pa.; Secretary, Wm. C. Perkins, Philadelphia; vice-presidents, W. W. Cunningham, Pittsburgh; F. L. Stowell, Olean, N. Y.; C. C. Blair, Canton, Ohio, and J. W. Hall, Baltimore; governor, C. P. McFadden, Toronto, Ohio; alternate, D. R. Potter, Clarksburg, W. Va.

## Louisiana Asks Bids on Thirty Miles.

Baton Rouge, La.—Sealed bids will be received until January 13 by the Louisiana Highway Commission at its office in this city for three road projects involving the construction of approximately 30 miles of gravel highway. Of the total, about 16 miles will be built in Vernon parish, more than 7 miles in Morehouse parish and more than 6 miles in Winn parish. Plans and specifications may be obtained from the office of the commission.

## Federal Bill Carries \$80,000,000 for Roads.

Washington, D. C.—As reported to the House of Representatives by the Appropriations' Committee, the agricultural appropriation bill carries \$80,000,000 for road construction, an increase of \$61,000,000 over last year. Total appropriations carried by the bill reach the sum of \$124,637,000, an increase over last year of \$58,923,000.

Spartanburg County Highway Commission, Spartanburg, S. C., will receive bids until December 23, for the construction of a 200-foot reinforced concrete bridge over Lawson's Fork, between Spartanburg and Gaffney.



# LUMBER AND BUILDING MATERIALS

## Strong Lumber Demand Continues.

Washington, December 11.—Reports of the lumber movement for the week ending December 6 received by the National Lumber Manufacturers' Association from 383 of the larger softwood commercial sawmills of the country, as compared with the revised reports from 366 mills for the preceding week, indicate a continued excess of new business over current production. Production and shipments show an increase over the preceding week, orders a slight decrease. The past week, in comparison with the corresponding week of 1923, shows a materially greater volume of new business and shipments but a smaller volume of production.

The unfilled orders of 253 Southern Pine and West Coast mills were 651,899,043 feet, as against 635,700,759 feet for 251 mills the week before. Separately, the Southern Pine group, 133 mills, reported unfilled orders as 250,669,507 feet, compared with 262,342,894 feet for the same number of mills the previous week; 120 West Coast mills had unfilled orders amounting to 401,229,536 feet, as against 373,357,865 feet for 118 mills a week earlier.

Altogether the 383 comparably reporting mills had shipments 109 per cent and orders 118 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 112 and 96, and for the West Coast mills 98 and 117.

Of the comparably reporting mills, 357 (having a normal production for the week of 218,662,411 feet) reported production 98 per cent of normal, shipments 105 per cent and orders 112 per cent.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

|                  | Past Week   | Corresponding Week 1923 | Preceding Week 1924 (Revised) |
|------------------|-------------|-------------------------|-------------------------------|
| Mills .....      | 383         | 384                     | 366                           |
| Production ..... | 221,544,118 | 233,264,151             | 201,400,916                   |
| Shipments .....  | 241,146,031 | 184,922,846             | 220,501,157                   |
| Orders .....     | 260,392,404 | 210,166,695             | 269,797,994                   |

The following figures compare the lumber movement for

the first forty-nine weeks of 1924 with the same period of 1923:

|                  | Production     | Shipments      | Orders         |
|------------------|----------------|----------------|----------------|
| 1924 .....       | 11,451,814,305 | 11,384,604,423 | 11,226,574,989 |
| 1923 .....       | 12,110,536,550 | 11,945,618,951 | 11,397,055,828 |
| 1924 Decrease .. | 658,722,245    | 561,014,528    | 170,480,839    |

Twelve mills of the California White and Sugar Pine Association reported a cut of 5,761,000 feet last week, shipments 9,478,000 feet, and orders 12,101,000. The reported cut represents 30 per cent of the total of the California Pine region.

The West Coast Lumbermen's Association wires from Seattle that new business for the 120 mills reporting for the week ending December 6 was 16 per cent above production and 17 per cent above shipments.

The Southern Pine Association reports from New Orleans that for the 133 mills reporting for the week, shipments were 12.06 per cent above production, current orders 3.89 per cent below production and 14.24 per cent below shipments. Of the 87 mills reporting running time, 74 were on full time, 6 were shut down, and the rest operated from one to five days.

The Western Pine Manufacturers' Association of Portland, Ore., reports production short last week compared with a week earlier, a good gain in shipments and a decline in new business. Compared with the preceding week 35 identical mills show a decrease in orders of 14 per cent, an increase in shipments of 20 per cent, while production decreased 17 per cent. New business remained 16 per cent above normal. Ten of the reporting mills not sawing, several others show a decrease in production.

The California Redwood Association of San Francisco reports a slight increase in production, a small drop in shipments and a slight decrease in new business last week as compared with the week before.

The North Carolina Pine Association of Norfolk, Va., reports marked increases in production, shipments and new business last week compared with the previous week, with five more mills reporting.

The Northern Hemlock and Hardwood Manufacturers' As-

LUMBER MOVEMENT FOR FORTY NINE WEEKS, AND FOR THE WEEK ENDING DECEMBER 6.

|  | Production         |                    | Shipments          |                    | Orders             |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | 1924               | 1923               | 1924               | 1923               | 1924               | 1923               |
| <b>Southern Pine Association:</b>          |                    |                    |                    |                    |                    |                    |
| Total .....                                | 3,814,537,279      | 3,826,008,848      | 3,853,661,899      | 3,859,820,040      | 3,810,322,613      | 3,673,711,973      |
| Week (133 mills) .....                     | 73,163,221         | 76,490,150         | 81,990,128         | 64,300,032         | 70,316,741         | 76,000,461         |
| <b>West Coast Lumbermen's Association:</b> |                    |                    |                    |                    |                    |                    |
| Total .....                                | 4,591,773,126      | 5,002,495,875      | 4,694,601,518      | 5,104,245,017      | 4,643,335,437      | 4,991,214,559      |
| Week (120 mills) .....                     | 103,618,826        | 109,470,313        | 102,045,441        | 81,695,201         | 121,464,444        | 94,602,555         |
| <b>Western Pine Manufacturers' Ass'n:</b>  |                    |                    |                    |                    |                    |                    |
| Total .....                                | 1,520,952,000      | 1,656,586,000      | 1,426,420,000      | 1,437,368,000      | 1,442,610,000      | 1,351,986,000      |
| Week (36 mills) .....                      | 18,822,000         | 24,986,000         | 27,243,000         | 17,848,000         | 34,975,000         | 20,025,000         |
| <b>California Redwood Association:</b>     |                    |                    |                    |                    |                    |                    |
| Total .....                                | 415,867,000        | 469,789,000        | 333,348,000        | 437,044,000        | 334,062,000        | 421,766,000        |
| Week (15 mills) .....                      | 8,354,000          | 9,845,000          | 6,235,000          | 5,744,000          | 6,987,000          | 5,577,000          |
| <b>North Carolina Pine Association:</b>    |                    |                    |                    |                    |                    |                    |
| Total .....                                | 373,836,100        | 425,495,227        | 379,941,206        | 436,047,394        | 344,552,939        | 348,018,296        |
| Week (53 mills) .....                      | 11,160,071         | 7,511,388          | 11,236,162         | 7,062,813          | 10,841,219         | 7,058,679          |
| <b>Northern Hemlock and Hardwood:</b>      |                    |                    |                    |                    |                    |                    |
| (Softwood) total .....                     | 139,287,000        | 119,023,000        | 118,734,000        | 119,412,000        | 91,588,000         | 102,765,000        |
| Week (20 mills) .....                      | 1,912,000          | 1,007,000          | 2,239,000          | 1,155,000          | 1,882,000          | 1,340,000          |
| <b>Northern Pine Manufacturers Ass'n:</b>  |                    |                    |                    |                    |                    |                    |
| Total .....                                | 416,974,800        | 485,859,600        | 419,378,800        | 397,120,500        | 419,933,000        | 370,228,000        |
| Week (6 mills) .....                       | 1,152,000          | 3,954,300          | 6,917,300          | 7,117,800          | 10,989,000         | 5,563,000          |
| <b>General total for 47 weeks:</b>         |                    |                    |                    |                    |                    |                    |
| (Softwood) .....                           | 11,273,227,305     | 11,985,257,550     | 11,231,085,423     | 11,791,056,951     | 11,086,403,989     | 11,259,629,828     |
| <b>Northern Hemlock and Hardwood:</b>      |                    |                    |                    |                    |                    |                    |
| (Hardwood) (49 weeks) .....                | 178,587,000        | 125,279,000        | 153,519,000        | 154,562,000        | 140,171,000        | 137,426,000        |
| <b>California White and Sugar Pine:</b>    |                    |                    |                    |                    |                    |                    |
| Total .....                                | 1,104,367,000*     |                    | 829,656,000        |                    |                    |                    |
| Week (12 mills) .....                      | 5,761,000          |                    | 829,656,000        |                    | 12,101,000         |                    |
| <b>General total for week .....</b>        | <b>221,544,118</b> | <b>233,264,151</b> | <b>241,146,031</b> | <b>184,922,846</b> | <b>260,392,404</b> | <b>210,166,695</b> |

\*Revised figures for 49 weeks; not included in General Totals. Represents about 69% of cut of region.

sociation of Oshkosh, Wis. (in its softwood production), reports a slight increase in production and small gains in shipments and a substantial increase in new business for last week compared with a week earlier.

The Northern Pine Manufacturers' Association of Minneapolis reports a small decrease in production and shipments and a little gain in new business last week compared with the preceding week.

### Georgia Encourages Reforestation.

Athens, Ga., December 13—[Special.]—Georgia farmers and landowners wishing to re-establish their woodlots, or to replant deforested sections, can get tree seed from the State Agricultural College at far less than the usual cost, due to the activities of the school of forestry. Nearly 3,000,000 tree seeds have been collected by the school in the past three months and stored away carefully for spring planting, and any farmer or landowner can secure a small supply of this seed at cost by writing to the forestry school extension division, according to DuPree Barrett, extension forester for the State Agricultural College.

When it became apparent that there would be a heavy demand for tree seed in the spring and that the commercial supply would be more expensive than the ordinary farmer could afford, the extension department of the forestry school joined forces with the extension department of the Agricultural School. The forestry school determined what would be a fair price to pay for seed collection on seeds of the different species of trees and obtained a small temporary appropriation for the purchase. It then called on the corn club boys of the state to help secure a supply of the different kinds of seed needed, and through their work Mr. Barrett has received 3,000,000 tree seed, which has been sorted out by students and stored where it will retain its vitality and be ready for planting in the spring.

Loblolly pine seed usually costs \$8 a pound, if obtained from commercial houses; the cost of collection to the state forestry school was only \$2.50 a pound. It will be sold to farmers of the state for that price, effecting a saving of \$5.50 a pound. Goodly supplies of other tree seed can be had at similar savings.

### Southern Yellow Pine Totals 35 Per Cent of Lumber Production in 1923.

The Department of Commerce announces that according to the data collected by the Bureau of the Census in cooperation with the Forest Service, Department of Agriculture, the production of lumber, lath and shingles in the United States during 1923 was as follows: Lumber, 37,165,540 thousand feet b. m., an increase of 17.7 per cent as compared with 1922; lath, 3,328,013 thousands, an increase of 13.2 per cent; shingles, 7,506,869 thousands, a decrease of 7.7 per cent.

The lumber cut for 1923 in the West Coast states was the largest ever reported, and the total output for the United States was the largest since 1916.

The two predominating woods were Southern yellow pine, which contributed 34.8 per cent of the total production reported for the year, and Douglas fir, which contributed 22.1 per cent, their nearest competitor being Western yellow pine, with 7.5 per cent. With the exception of cypress, the cut of which decreased 5.7 per cent, all the principal species showed increases for 1923 as compared with the preceding year.

Stocks of lumber on hand at the mills January 1, 1923, were reported as 9,749,769 thousand feet, and December 31, 1923, as 10,548,087 thousand feet.

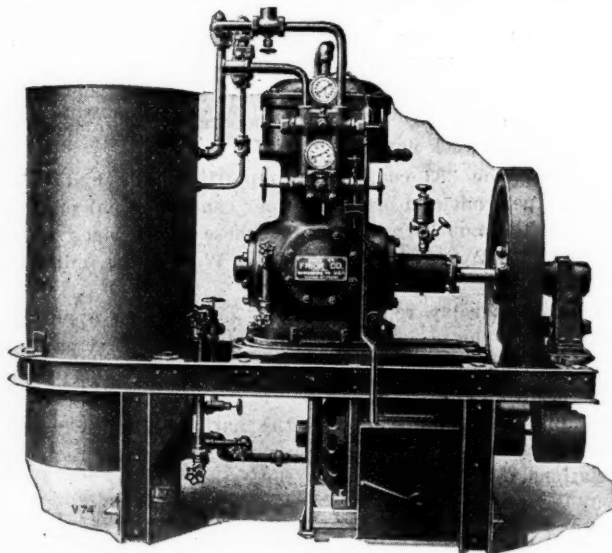
Daniel Downey of West Palm Beach, Fla., is considering the erection of a ten-story hotel in that city at a cost of \$225,000.

## MECHANICAL

### Combined Refrigerating Machine.

A new combined refrigerating machine has been developed to meet the needs of good-sized dairies, markets, restaurants, ice cream establishments, etc., where space is limited, or where the user rents his place. This machine has two cylinders not less than 4 by 4 inches in size, which gives it a refrigerating capacity of four tons per day. Smaller machines have long been built, but up to this time a large portable unit with such compact design has not appeared.

The compressor itself is of the vertical enclosed type. The weight of the flywheel and the belt pull on the compressor



NEW COMBINED REFRIGERATING MACHINE.

shaft are taken care of by an outboard bearing. The electric motor is mounted directly below the flywheel, a weighted idler being employed to keep the belt at the proper tightness. Attached to the front of the frame is the starting box for the motor.

The ammonia gas is controlled by four valves built on a simple square pattern. A full-size by-pass is provided for starting. Two gauges indicate the suction and discharge pressures. In case the discharge pressure should rise too high, an electric contact on the gauge is opened and the motor is shut down; the conduit carrying the wire from the gauge to the starting box is clearly shown in the picture. The compressed gas discharges through a check valve before entering the condenser drum. Two safety valves are also provided, one for the compressor and another for the condenser; these blow into the low pressure side of the system in case of faulty operation.

This condenser is of the shell-and-tube type, similar to a shell-and-tube boiler. The cooling water passes through the tubes one after another, a return bend being fitted over the ends of each pair of tubes. Thus the water extracts its full share of heat before leaving the condenser. The compressor cylinder heads are completely surrounded by a water jacket, which serves to keep the warmest parts of the machine from overheating. Another interesting feature of this unit is the frame, made of structural steel channels instead of cast iron; it is strong yet light.

This unit is brought out by the Frick Company of Waynesboro, Pa.



# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.  
An asterisk (\*) following an item indicates that the enterprise has been reported in a preceding issue.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

### Airplane Plants, Stations, Etc.

Ga., Atlanta—City and Fulton County Comms. authorized to purchase property on the Browns Mill road for use as municipal aeroplane landing field; will establish air mail and other services afforded by aeroplanes. Address City Secretary.

### Bridges, Culverts and Viaducts

Fla., Bradenton—Manatee County Comms. plan building bridge connecting Anna Maria and Longboat Keys, cost \$100,024.42; approaches to State Highway bridge to span Manatee River, connecting Bradenton with Palmetto, cost \$100,000; will vote Jan. 14 on bonds.

Fla., Clearwater—Pinellas County Comms. will receive bids Jan. 2 for causeway across Clearwater Bay, 700,000 cu. yd. dredged embankment; also for Gulf to Bay Blvd., Sunset Point-Coachman road, Druid Road, and road north from John Barnes' corner to connect with Druid Road; C. E. Bursleson, County Engr.\*

Fla., St. Augustine—St. John's County contemplates building 1600-ft. bridge over Mantanzas Inlet; cost about \$150,000; C. M. Rogers, Daytona, preparing plans.

Fla., St. Augustine—City Comn., plans building bridge to Anastasia; will vote Feb. 10 on \$611,000 bonds.

Fla., Sarasota—Details under Road and Street Construction.

Fla., West Palm Beach—Palm Beach County Comms., Fred E. Fenno, Clk., will receive bids Dec. 23 to furnish material, labor, equipment, etc., for 2 bridges: Timber bridge over Della Creek, near north end of Lake Worth, north of Kelsey City; timber and steel bridge over Earman River on Dixie Highway, near Kelsey City; plans, etc., on file and from Geo. O. Butler, County Engr.

Fla., West Palm Beach—Palm Beach County Comms., Fred E. Fenno, Clk., will receive bids Dec. 23 to furnish material, labor, equipment, etc., for timber bridge at Prosperity, over Earman River, near Kelsey City; plans, etc., on file and from Geo. O. Butler, County Engr.

Georgia—State Highway Dept., East Point, let contract for 7 bridges. Details under Road and Street Construction.

Ky., Calhoun—McLean Fiscal Court contemplates bridge across Green River between Calhoun and Rumsey; H. M. Talbott, County Road Engr.

Ky., Maysville—Chesapeake & Ohio Ry. Co., C. H. Johns, Ch. Engr., Richmond, Va., plans building concrete arched viaduct along Front St. between Limestone and Market.

La., Rayville—Details under Road and Street Construction.

Md., Baltimore—Board of Awards received low bids from Continental Contracting Co., Knickerbocker Bldg., at \$41,600 for bridge over Pennsylvania R. R. tracks, at Edmondson Ave.\*

Md., Point of Rocks—Frederick County Bridge Comn., Frederick, plans purchasing toll bridges across Potomac River at Point of Rocks and Brunswick; John N. Mackall, Chmn. of State Roads Comn., and Bridge Comn., Baltimore, Md.

Md., Rockville—State Roads Comn., 601 Garrett Bldg., Baltimore, will receive bids Dec. 23 for approaches to under-grade crossing at Silver Spring; J. H. Mackall, Chmn.

Missouri—State Highway Dept., Jefferson City, will build 3 bridges. Details under Road and Street Construction.

Mo., Jefferson City—Cole County Court plans building Bois Brule Bridge, on Brazito-Henley Road, near Henley. Henry Jones, County Highway Engr.

N. C., Wilson—City Comn. plans bridge building; will issue \$90,000 bonds.

S. C., Charleston—Charleston County Sanitary & Drainage Comn. plans building bridge over Wappoo Cut on road to Folly Island, through James Island.

S. C., Columbia—State Highway Comn., Capt. C. H. Moorefield, Engr., plans 1500-ft. reinforced concrete bridge across Congaree River at foot of Gervais St., 52 ft. wide, 50 ft. high, 36-ft. roadway, two 6-ft. sidewalks; cost \$500,000; State Highway to pay \$300,000, Richland County to pay \$200,000.

S. C., Georgetown—Georgetown County Highway Comn., will receive bids Dec. 30 to construct 8442-ft. Yauhannah Ferry Bridge over Great Pee Dee River on State Route No. 40, between Georgetown and Horry Counties, reinforced concrete, steel and creosoted timber, 935 cu. yd. dry and wet excavation, 9386 lbs. reinforcing steel, concrete substructure; 635,000 lbs. structural steel, 40,191 lbs. reinforcing steel, steel superstructure; 16,870 sq. yd. rock asphalt paving; plans, etc. on file and from State Highway Engr., Columbia.\*

S. C., Greenville—Greenville County Comms., let contract to Austin Bros. Bridge Co., Atlanta, Ga., at \$26,288, for 284-ft. steel concrete bridge across Saluda River, on Greenville-Anderson road.\*

S. C., Spartanburg—Spartanburg County will receive bids Dec. 22 for 200-ft. reinforced concrete bridge over Lawson's Fork, on State Highway No. 8, between Spartanburg and Gaffney, in Spartanburg County, 485 cu. yd. dry and wet excavation, 109,085 lbs. reinforcing steel; plans, etc., on file, and from State Highway Engr., Columbia.

Tenn., Brownsville—City will build 2 bridges. Details under Road and Street Construction.

Tenn., Jasper—Details under Road and Street Construction.

Tex., Boston—Bowie County will build 3 bridges. Details under Road and Street Construction.

Tex., Boston—Details under Road and Street Construction.

Tex., Brownsville—Cameron County will receive bids soon for two 150-ft. steel spans bridge, with creosoted pile trestle approaches, across Arroya, Colorado, on State Highway No. 12, estimated cost \$70,000; W. O. Washington, County Engr.; Oscar C. Dancy, County Judge.\*

Tex., Houston—City will receive bids Dec. 22 for 144-ft. reinforced concrete bridge across Bray's Bayou on Bellaire Blvd. extension in Herman Park; Sec. A, substructure; Sec. B, superstructure; O. F. Holcombe, Mayor.

Tex., Houston—City plans building 3 bridges; will vote in April on \$1,000,000 bonds; O. F. Holcombe, Mayor.

Tex., Pearsall—Details under Road and Street Construction.

Va., Norfolk—Hampton Roads Maritime Exchange, 406 Plume St., interested in building bridge across James River from Newport News to Norfolk.

Va., Roanoke—City will receive bids probably Feb. 1 for concrete viaduct on Thirteenth St.; B. H. Davis, Engr., 17 Battery Place, New York, preparing plans; W. P. Hunter, City Mgr.\*

W. Va., Barboursville—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., plans undergrade railway crossing on Center St.

### Canning and Packing Plants

Ala., Albany—Albany-Decatur Chamber of Commerce interested in canning and packing plant.

Ark., Siloam Springs—W. L. Divins Canning Co. has acquired building and will remodel for canning plant.

Fla., Largo—F. Burkhart, H. E. Watson and associates interested in establishing grapefruit cannery.

Tex., Brownsville—McDavitt Bros. will erect brick and frame packing plant, 50x160 ft.

### Clayworking Plants

Ala., Cordova—Cordova Brick & Tile Corp. chartered with Monroe Aaron, Pres., Cordova; Jerome Edmundson, Sec., First National Bank Bldg., Birmingham; company has about 400 acres of coal, shale and clay property, with some 2,000,000 tons of buff burning clay stripped off ready for loading; will erect plant, install machinery, etc.

Miss., Meridian—A. P. Peel & Son will erect concrete brick plant with daily capacity 112,000 brick.

N. C., Lilesville—Anson Brick and Tile Co. increased capital from \$30,000 to \$100,000.

S. C., Columbia—Fireproof Building Material Co., 1522 Main St., capital \$50,000, incorporated with D. G. Zeigler, Pres., has leased 3½ acre site at Cayce and will erect plant for manufacturing fire and fancy brick,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

hollow tile, etc.; will install two machines for making 30,000 brick daily.

### Coal Mines and Coke Ovens

Ky., Artemus—Bay's Coal Co., capital \$6000, incorporated by G. B. Bays, P. L. Alford and S. M. Bays.

Ky., Bulan—Zack Grass Coal Co., capital \$20,000, incorporated by Zack Grass, J. W. Fugate and Allie Grass.

Ky., Harlan—Clean Rex Coal Co. incorporated by J. H. Blair, Bud Fleenor and others.

Ky., Hazard—Storm King Fuel Co., capital \$25,000, incorporated by Wm. F. Mandt, Lewis E. Harive, W. W. Reeves.

Ky., Lexington—Kentucky Coal Supply Co., capital \$10,000, incorporated by R. L. Wheeler, R. R. Wheeler and others.

Ky., Tinsley—Shaefer-Jellico Coal Co. incorporated by G. S. McGaffee, Charles H. Hoskins and M. Goodin.

Md., Cumberland—The Georges Creek-Barnellville Coal Co., 41 Little Frederick St. organized with Geo. Henderson, Pres.; Wm. A. Gunter, Sec.; has 200 acres coal land under development; daily output 150 tons.\*

Tenn., Chattanooga—New York capitalists reported as planning merger of Chattanooga Coke & Gas Co., James Bldg., Chattanooga; the Roane Iron Co., Chamberlain Bldg., of Nashville, Tenn., and the Consolidated Coal Co. of Tracy, Tenn. The new company will probably be known as the Bon Air Coal & Iron Co.; merger will involve about \$8,000,000.

Chattanooga Coke & Gas Co., Inc., James Bldg., wires: "We are not participants in consolidation and are not familiar with either plans or progress being made."

Wire from Wm. J. Cummins, V. P. of the Bon Air Coal & Iron Corp., Nashville, Tenn., states: "Merger has not been finally concluded and until this is the case we of course cannot give out any information; when completed will give you all details."

W. Va., Ansted—Gauley Mountain Coal Co., R. H. Morriss, local Mgr. has acquired 4000 acres coal land on Maple Meadow Fork of Coal River, Raleigh County; will develop.

W. Va., Kingwood—Preston Smokeless Coal Co. increased capital from \$75,000 to \$100,000.

### Concrete and Cement Plants

Fla., Jacksonville—Z. B. Hayslin contemplates building modern tile and concrete factory, has site.

Miss., Meridian—A. P. Pool & Son, Contrs., contemplates building concrete brick manufacturing plant, initial capacity 12,000 bricks

daily and probably increase output to 50,000 daily.

### Cotton Compress and Gins

Ark., Maxville—S. S. Wilkerson of Bickel Spring, will erect cotton gin.

Ky., Benton—Watson-White Co. of Jackson, Tenn., has site and will construct cotton gin with capacity of 25 bales daily.

Tex., Garland—Farmers Cotton Gin Co. increased capital from \$20,000 to \$30,000.

### Cottonseed-Oil Mills

S. C., Anderson—Anderson Cotton Oil Co., W. Market St. will rebuild meal grinding department, burned at loss of \$10,000.

Tex., Clarksville—Clarksville Cotton Gin Co., P. J. Graves, Mgr., will rebuild burned plant.

### Drainage and Irrigation

Fla., Arcadia—Details under Land Development.

Fla., Miami—T. T. Sweet Dredging Corp., has contract to dredge canal through Biscayne Park estates, waterway will be 75 ft. wide, 12 mi. long; plans call for settling basin at west end of canal, 100 ft. wide x 300 ft. long.

Fla., Tallahassee—Everglades Drainage Dist. Commrs. will receive bids Jan. 14 to excavate 30 mi. canal. (See Machinery Wanted—Excavation.)

Tex., Austin—Charles Dunlap of the Board of Water Engr. interested in the Medina Irrigation Dist. in Medina and Frio Counties.

### Electric Light and Power Plants

Ala., Fairfield—Details under Land Development.

Ala., River Falls—River Falls Power Co., E. L. Moore, Pres., has under construction a 6000 k.v.a. plant, cost \$600,000; will construct approximately 75 miles of transmission line connecting River Falls, Gantt, Aadalusia, Doxier, Brantley, Glenwood, Luverne, Red Level and Enterprise; cost \$150,000; develop 20,000 h.p.; Horse Shoe Lumber Co., Contrs.; E. S. Killebrew, Albany, Ga., Engrs.; James Leffel & Co., Springfield, Ohio, and General Electric Co., Schenectady, N. Y., Machinery Contrs.\*

Ala., Sheffield—Alabama Power Co., Brown-Marx Bldg., Birmingham, reported to have acquired entire holdings of Sheffield Co. except its stock in Sheffield National Bank, purchase includes Sheffield Land Corp., electric lighting systems and water systems of Florence, Sheffield, and Tuscumbia; Tuscumbia street car

system; and real estate holdings in Muscle Shoals district; wire from T. W. Martin, Pres., Alabama Power Co., states: "We are acquiring electric lighting, street railway and municipal water systems of the Sheffield Co. and plan to make hydro electric service available from our system within the immediate future, thus affording opportunity for immediate industrial expansion which will doubtless be greatly extended on the coming in of power from Wilson Dam at the end of next year; we have not worked out definite plan beyond this general program."

Ark., Blytheville—Ben Stover will rebuild electric light plant burned at loss of \$15,000.

Fla., Arcadia—Details under Land Development.

Fla., Boca Ratone—City votes Dec. 20 on bonds for electric light system. Address The Mayor.

Fla., Lakeland—City will expend \$160,000 for improvements to electric power plant. Address The Mayor.\*

Fla., Miami—J. R. McDaniels, Central Hotel Arcade; H. H. Lewis and others interested in establishment of white way system on W. Eighth St.

Fla., Miami—Details under Land Development.

Fla., Orlando—Details under Land Development.

Fla., Sarasota—Details under Land Development.

Fla., Tampa—Tampa Electric Co., Tampa and Cass Sts., Col.; Peter O. Knight, Pres., will construct dam to replace present one on upper Hillsborough River.

Fla., Tampa — South Tampa Electric Co. (subsidiary organization of U. S. Export Chemical Company is constructing electric light and power plant; wire from Samuel E. Taylor states: "Virginia Bridge & Iron Co., 3800 Eighth Ave., N. Birmingham, Ala., shipping all steel for South Tampa Electric Co. with Harry L. Pierce, Pres., building plant on Export Chemical property under lease, has 15 miles franchise country roads connecting Tampa, Palm River, River View; furnishing power to U. S. Export Chemical Corp."

Fla., West Palm Beach—Details under Land Development.

Fla., Winter Park—Florida Public Service Co., 117 N. Orange Ave., Orlando, will probably acquire electric distribution system from city.

Ga., Columbus—Columbus Electric and Power Co. granted permission by Georgia Public Service Comsn., to issue \$2,000,000 in

## An Economical Sales Service

Information to your office every day giving you an opportunity to get in touch with firms while they are in the market and are good prospects. If you are a dealer in Machinery and Supplies, Railroad and Contractors' Equipment, Architect, Contractor or Builder, you will find our

### DAILY BULLETIN SERVICE

reliable and valuable.

It gives information about industrial undertakings and engineering, construction and building operations, and State, County and municipal improvements in the entire South and Southwest.

You can use this service to excellent advantage.

MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



first refunding mortgage bonds and \$2,000,000 in 3 yr. gold notes for purpose of development of Bartlett's Ferry power project.\*

Ky., Owensboro—City received following low bids for equipment to be installed in electric light plants: for furnishing boiler Casey-Hedges Co., Chattanooga Tenn.; for superheater, Babcock & Wilcox, Cincinnati, O.; for soot blower, Casey-Hedges Co., Chattanooga.\*

La., Jonesville—Town Council will probably call election to vote on bonds for sewerage and electric light plant.

La., Port Allen—Details under Land Development.

Mo., Booneville—Missouri Light & Power Co., A. W. Mattison, Gen. Mgr., reported to have acquired 20-acre site for the erection of \$200,000 electric light plant; T. W. Long, Local Mgr.

Mo., Liberty—Details under Land Development.

Mo., St. Louis—Public Service Co. of Missouri increased capital from \$40,000 to \$85,000.

N. C., Wilson—Details under Water Works.

Okla., Wetumka—City will be ready for bids about Dec. 30 for electrical improvements to cost approximately \$60,000, will also construct water works, cost \$52,000; V. V. Long & Co., Engrs., Colcord Bldg., Oklahoma City.\*

S. C., Camden—Wateree Power Co., reported to increase capital from \$7,500,000 to \$11,000,000.

S. C., Laurens—Southern Power Co., Charlotte, N. C., reported to extend power lines to Laurens; has acquired 2-acre site for power station.

Tex., Coleman—City Commrs. will expend \$21,000 for improvements to light plant.

Tex., Dallas—Texas Power & Light Co., Interurban Bldg., reported increased capital from \$15,500,000 to \$16,500,000.

Tex., Dallas—Dallas Power & Light Co., Interurban Bldg., reported increased capital from \$4,500,000 to \$6,000,000.

Tex., Houston—Details under Land Development.

Tex., Karnes City—E. A. Clausnitzer of Kennedy acquired electric light and ice plant of H. J. Niehaus.

Tex., Lubbock—Texas Utilities Co., Hubert L. Allen, Mgr., reported to increase capacity of electric light plant by installation of 1200-h. p. Busch-Sulzer Bros. Diesel engine; construct 50-ton ice freezing plant; ice service station corner Ave. K and 10th; extend entire plant, office and service station.

Tex., San Benito—Valley Electric & Ice Co., is constructing 23 miles of 33,000 to 57,000 volt transmission line from Matamorras, Mexico, to San Benito.\*

Tex., Trinidad—E. B. Lee, Statistician, Electric Bond and Share Co., 71 Broadway, N. Y., advises that construction work will soon begin on electric generating station, ultimate installed capacity of 150,000 kw. and an initial capacity of 40,000 kw. by the Texas Public Utilities Co., an operating subsidiary of Southwestern Power & Light Co., latter company being controlled by American Power & Light Co.; station will be located in Texas lignite fields on Trinity River near Trinidad, 65 miles from Dallas; will utilize natural reservoir approximately 1½ miles long and ¾ mile wide, having area of 800 acres as storage for condensing water; company has purchased or has under option approximately 3000 acres of lignite, sufficient to operate station for 20 yrs.; plant will be built on the unit plan; initial installation will consist of

two 20,000 kw. units, together with 4 high pressure, super-heat boilers each having 20,000 sq. ft. heating surface; boilers will be equipped for burning lignite, so designed that oil or gas burning equipment may be installed.

### Fertilizer Factories

Fla., Tampa—U. S. Export Chemical Co., 476 1st Ave. N., St. Petersburg, will construct steel tanks at super-phosphate factory across Tampa Bay; wire from Samuel E. Taylor, Sales Mgr., states: "Contract let by company to J. S. Schofield's Sons Co., Macon, Ga., for 2 large sulphuric acid storage tanks; water tower 100 ft. high with 2 water tanks, top tank 30,000 gal. capacity, lower tank 10,000 gal. capacity; all to be delivered and erected on or before Jan. 17, 1925; permit granted for 1300-ft. fill and authority to dredge channel from dock to Government ship channel; Bove Co. figuring on dredge for us to be electrically operated. Schofield's Sons Co., Macon, Ga., awarded contract by company for drier, drier furnace and concentrator furnace to be set up in January."

La., Baton Rouge—Texas Chemical Co., Scanlan Bldg., Houston, Tex., reported to begin construction on Jan. 1 of \$750,000 plant about 5 miles from Baton Rouge.\*

### Flour, Feed and Meal Mills

Mo., St. Joseph—St. Joseph Milling Co., Seventh and Olive Sts., Charles Smolin, Pres., Chicago, Ill., is considering construction of grain elevator.

Okla., Douthat—Dudley Milling Co., capital \$70,000, incorporated by L. W. Goings, of Douthat; C. W. Theurer and D. L. Wheat, 1811 Murphy St., both of Joplin, Mo.

Okla., Tulsa—Tulsa Feed Co., capital \$70,000, incorporated by Sherman Durrett, R. A. Hayden and others.

### Foundry and Machine Plants

Ala., Birmingham—McWane Cast Iron Pipe Co., 3600 N. Eleventh Ave., reported to expend approximately \$100,000 on plant improvements, including new machine shop, extension of foundry capacity and new sand storage warehouse; fireproof construction, steel frame with metal sash; machinery and equipment of present machine shop will be moved into new building and will acquire additional machinery to enlarge operating capacity, etc.\*

Ala., Birmingham—Rail-Joint-Nut-Lock & Safety Device Co., capital \$25,000, incorporated with J. F. Williams, Pres., 1512 N. 16th Ave., Pres.; Flossie V. Holmes, Sec. Treas.

Ala., Chavies—Holdfast Brake & Implement Co., incorporated by J. D. Hall, E. F. Dobbins and J. R. Woodall.

Ga., Columbus—J. T. Knight & Co., capital \$200,000, incorporated by J. B. Knight, Jr., E. J. Knight and F. X. Profumo, 1233 Fourth Ave

Tenn., Knoxville—Heat Regulators—Fulton Co., Kingston Pike, reported to expend \$15,000 on plant repairs.

W. Va., Huntington—A. F. Thompson Manufacturing Co., A. F. Thompson, Pres., 118 Eighth Ave., plans erecting 3-story addition to plant; manufacture patented Bunsen burner, gas ranges and heaters

### Gas and Oil Enterprises

Ala., Fairfield—Details under Land Development.

Ark., England—Allport Oil Co. will issue \$30,000 worth of stock.

Ark., Pine Bluff—Arkansas Natural Gas Co. is expending \$100,000 on improvements.

Fla., Orlando—Details under Land Development.

Md., Cumberland—West Virginia and Maryland Gas Co. of West Virginia, applied for permission to Public Service Comsn. to purchase West Virginia and Maryland Gas Co. of Maryland and Northern Gas Co., and consolidate under name of Cumberland and Allegany Gas Co., also applied for permission to construct artificial gas plant.

Miss., Pascagoula—Home Oil & Gasoline Co., capital \$10,000, incorporated by H. C. Herring, Pascagoula; W. B. Herring of McComb and others.

Mo., St. Louis—Liberty Bell Oil Co., 1478 S. Vandiveter St., increased capital from \$60,000 to \$100,000.

Okla., Bartlesville—Grouse Creek Oil Co. incorporated by F. M. Overlees, F. P. Springstead, P. A. Somparrac and others.

Okla., Oklahoma City—Midwest Erecting Co. incorporated by J. H. Byrd, 508 W. 32nd St.; L. P. Gepford and others.

Okla., Okmulgee—Betty Ann Oil Co., capital \$25,000, incorporated by C. D. Gold, J. H. Keaton and others.

Okla., Stroud—Stroud Gas Co., capital \$20,000, incorporated by Louis Friedman, Sam Friedman and others.

Tex., Comanche—Details under Water Works.

Tex., Fort Worth—Mont-Tex Corp., A. W. Terpening, Pres., 607 Burnett Bldg., will construct carbon black plant; R. F. Goodnature, A. S. Hatch, 607 Burnett Bldg., Engrs.; have not purchased equipment.\*

Tex., Strawn—Burton-McKee Oil Corp., capital \$100,000, incorporated by W. Burton, L. H. McKee and others.

Tex., Waskam—Belmont Oil & Gas Co., capital \$10,000, incorporated by H. C. Skidmore, A. R. Campbell and others.

W. Va., Bluefield—Southern Gas & Power Co. has completed survey for extension of gas system.

W. Va., Charleston—The Martha Pipe Line Co., capital \$100,000, incorporated by A. A. Barnes, H. B. Smith, Kanawha Bank & Trust Co., and others.

W. Va., Wellsburg—Herds Oil Co., capital \$25,000, incorporated by Frank Dietz and others.

### Ice and Cold-Storage Plants

Fla., Miami—Freeman Bernstein, 1439 Broadway, New York City, reported, contemplate building \$1,000,000 refrigeration plant, estimated capacity about 200 carloads at one time.

Fla., Miami—New Electric Ice Co., L. J. Fletcher, Pres., will erect \$25,000 plant on N. Miami and Twenty-seventh Sts.; 1-story, 90.6x104 ft., cement block and steel.\*

Fla., St. Petersburg—Crystal Ice Co. Tenth Ave. and Fifth St., contemplates enlarging plant, increasing capacity from 1500 tons to 2100 tons monthly; also proposed purchasing and remodel plant in Largo.

Fla., Sarasota—Sarasota Ice & Cold Storage Co., A. P. Beckett, Sec.-Mgr., let contract to Frick Co. of Waynesboro, Pa., for 125x250-ft. ice-making plant, corner Lemon and 12th; install 35-ton capacity Frick machine; increasing total capacity to 55 tons.\*

Tex., Lubbock—Details under Electric Light and Power Plant.

Ga., Atlanta—Atlantic Ice & Coal Corp., Washington St. Viaduct, W. B. Baker, Pres., increased capital to \$25,000,000; plans extensive building program.

Ky., Wallins Creek—Wallins Ice Co. increased capital from \$25,000 to \$30,000.

La., Donaldsonville—Donaldsonville Ice Co. has plans for \$400,000 plant; building will be in two units, each having capacity for 35,000 tons ice; storage plant of each unit to be 40x60 ft.; combined output of both units will be 100 tons daily; first unit now under construction will be equipped with 150-h. p. Fairbanks Morse oil engine and the second with a 250-h. p. engine; ice chute fronting about 600 ft. on the Texas Pacific Ry. will be capable of icing 30 cars in 15 minutes.

N. C., Asheville—Electric Ice Co., capital \$100,000, incorporated by E. W. Grove, Bernard Elias and Frank A. Barber, Edwin Place, Grove Park.

Okla., Pawhuska—W. D. Beard of Ponca City and Clement DeNoya of Osage have begun construction of \$75,000 ice plant.

Tenn., Memphis—Saino-Covington Refrigerator Co., capital \$10,000, incorporated by F. L. Saino, Haynes Ave.; R. C. Covington, Z. Mason.

Tex., Canyon—Kelso-Wurdack Co. has acquired the Canyon Light & Power Plant; will probably establish 20-ton daily capacity ice plant.

Tex., Goose Creek—Goose Creek Ice Co., C. F. Martin, Mgr. is remodeling old plant, 40x90-ft. wood frame, metal covered building, put in concrete floors, Johns-Manville roof; install \$17,000 equipment, including two 8x8 twin cylinder ice machines, low pressure pendulum tube agitation, two 70 h.p. giant oil engines; machinery to be furnished by Frick Co., Waynesboro, Pa.; Chicago Pneumatic Tool Co., 572 W. Rand St., Chicago, Ill., and Westinghouse Electric Co., Pittsburgh, Pa.; contract to be let on materials; work to be done by company's forces; manufacture raw water ice, daily output 24 tons.\*

Tex., Karnes City—Details under Electric Light and Power Plant.

### Land Development

Ala., Birmingham—Southside Realty Co. incorporated by Harold Atkinson, J. M. Gillespie, Jr., 2006 Highland Ave., and others.

Ala., Birmingham—Maplehurst Land Co., capital \$10,000, incorporated by Hampton S. Smith, H. B. Sargent, Highland View Apts., and others.

Ala., Birmingham—J. Winston Hale Co., capital \$12,000, incorporated by J. Winston Hale, W. W. Garth, 3911 Eighth St. Court S., and others.

Ala., Eufaula—James Spratling of Deatsville acquired 1000 acres of land.

Ala., Fairfield—The Fairfield First Addition, Inc., capital \$50,000, incorporated with C. J. Donald, Pres.; A. Clinton Decker, Sec.

Ala., Florence—Christian Real Estate Co. has plans for developing subdivision; will construct streets, etc.

Ark., Marion—Delta Improvement Co., capital \$100,000, incorporated by E. S. Shank, L. B. Pryor and others.

Fla., Arcadia—A. H. Wales has acquired large tract of land on Peace River and will develop for subdivision including 40 acres for public park; will install water, sewers, electricity, construct roads and streets; park section will have swimming pool, amusement features, improve rivers edge, etc.; construct drainage system; build filling station, etc.; Will S. Loflin, Constr. Engr.

Fla., Babson Park—Crooked Lakeland Im-

provement Co., capital \$25,000, incorporated with Charles E. Martin, Pres.; C. A. Hefferman, Sec.

Fla., Bartow—Fred H. Miller of Hancock-Miller Realty Co., Springfield, Tenn., has plans for further development of Green Oaks subdivision.

Fla., Bartow—T. A. Goode has acquired 40 acres of land and will develop in bananas.

Fla., Boynton—Brown Development Co., capital \$15,000, incorporated with Christopher F. Brown, Pres.; W. C. VanHoy, Sec.

Fla., Bradenton—B. M. Johnston Real Estate Co., capital \$50,000, incorporated with B. M. Johnston, Pres.; Charles P. Gray, Sec.

Fla., Cocoa—L. E. Fay will develop subdivision; will pave streets, sidewalks; install water pipes and sewer mains.

Fla., Daytona—Hawkins & Bennett have begun development of 50,000 acres of land on DeLand Rd.; will establish experimental farm, etc.

Fla., Daytona—Ponce-DeLeon Springs Co., capital \$500,000, incorporated with C. M. Greiner, Pres., Seabreeze; Duncan Mills, Sec.

Fla., Daytona—Brittonia Realty Co., capital \$50,000, incorporated with E. C. Britton, Pres.; E. F. Brass, Sec.

Fla., DeLand—R. D. Craig of Daytona, has acquired 29,000 acres of land and has option on 50,000 additional acres and will develop for town site; will construct drainage canal, etc.

Fla., DeLand—Forest Hills Development incorporated with \$50,000 capital, Chas. Heath, Pres.; will develop 40 acres for subdivision; will construct sidewalks and streets; expend \$25,000.\*

Fla., Fort Lauderdale—City has site and will develop for park; \$8500 available. Address The Mayor.\*

Fla., Fort Myers—Alabama Terrace, Inc., capital \$100,000, incorporated with C. W. Bergen, Pres.; George S. McCutcheon, Sec.

Fla., Fort Myers—Stubbs-Boyd Realty Co., capital \$10,000, incorporated with C. J. Stubbs, Pres.; M. M. Boydm, Sec.

Fla., Fort Myers—Watson-Harrison Realty Co., capital \$50,000, incorporated with C. S. Watson, Pres.; W. W. Watson, Sec.

Fla., Jacksonville—W. L. Whitehead, Osceola, acquired 52 acres and will develop.

Fla., Jacksonville—Skinner Brothers Realty Co., Duval Bldg., will soon let contract for improvement work at Bowendale subdivision; will construct drainage ditches, grade streets, install telephone system, etc.

Fla., Jacksonville—Sewell Realty Co., capital \$25,000, incorporated with J. N. Sewell, Pres.; E. E. Hazard, Sec.

Fla., Jacksonville—Florida Real Properties, Inc., incorporated with Francis B. McGarry, Pres.; Paul D. McGarry, Sec., Graham Bldg.

Fla., Jacksonville—Atlantic Boulevard Properties, Inc., capital \$100,000, incorporated with J. J. Kerns, Pres.; E. M. Atkinson, Sec.

Fla., Jacksonville—H. T. White, Toronto, Can., has acquired through Sewell & Newlon, 10 acres of land fronting on Atlantic Beach Blvd. and will develop; will construct streets; install water, sewers, etc.

Fla., Jacksonville—W. D. Middleton acquired 50 acre town of Spring Glen, 4 miles outside of Jacksonville, from Joseph R. Dunn.

Fla., Jacksonville—Realty Corp., J. D. Alderman, V.-P., 442 Main St., will develop subdivision.

Fla., Lakeland—Dr. C. L. Cruse of Statesville, N. C., has acquired 50 acres of land and will develop.

Fla., Maitland—City voted \$10,000 bonds for acquiring and improving central park. Address City Clk.\*

Fla., Miami—Long Beach Co. of Florida, lately noted incorporated with \$50,000, O. W. Gatts, Pres., 515 Congress Bldg.; will develop 30 acres for residential and business section; will construct oiled streets, curbs, gutters; install water works; street lighting and landscaping.\*

Fla., Miami—E. T. Stephens & Co., acquired 20 acres of land on Everglades Ave. and will develop.

Fla., Miami—Everglades Land & Development Co., New Tatum Bldg., George Warren, Pres., has acquired control of 6000 acres of muck land with its own drainage canal and plans development of townsite.

Fla., Miami—Wm. C. Hale and Joel A. Dean, 309 N. E. First Ave. will develop orange and grapefruit groves.

Fla., Miami—Florida Land & Construction Co., incorporated with G. D. Bailey, Pres.; J. D. Tollison, Sec.

Fla., Miami—Donnelly Realty Co., capital \$100,000, incorporated with H. Donnelly, Pres.; Edward Donnelly, Sec.

Fla., Miami—L. T. Hughes let contract to George Bennett of Fulford for construction of rock streets through subdivision.

Fla., Miami—W. H. Krames, Krames-Corlett Co., 207 N. E. Second Ave., is developing Shore Crest subdivision; has let contract for construction of 200,000 sq. ft. of cement sidewalks, etc.

Fla., Miami—P-J Holding Co., capital \$10,000, incorporated with Fred W. Pine, Pres., 60 W. Flagler St.; Errall E. L. Johnson, Sec.

Fla., Miami—John L. Stadler, W. Flagler St., affiliated with Barnaby Agency, will develop Stadler Grove for subdivision; will construct streets, sidewalks, electricity, water system, telephone service, etc.

Fla., Miami—First Avenue Holding Co., capital \$50,000, incorporated with C. D. Lefler, 618 Brickell Ave., Pres.; Comelea Lefler, Sec.

Fla., Miami—Beacon Miami Corporation, capital \$40,000, incorporated with Louis Goodman, Pres.; A. M. Averett, Sec.

Fla., Miami—International Realty & Investment Co., capital \$30,000, incorporated with Joseph A. Daly, Pres.; Julio Quetzguez, Sec.

Fla., Miami—John B. Campbell Organization, Selling Agts. for Paradise Park subdivision, will install white way system, paved streets, sidewalks, etc.

Fla., Miami—Miami Suburbs, Inc., capital \$10,000, incorporated with Fred W. Pine, Pres.; James R. Cooper, Sec., 275 N. E. 15th St. Terrace.

Fla., Miami—H. L. Miller of Dayton, Ohio, acquired tract of 40 acres and will develop.

Fla., Miami—E. T. Stephens & Co. acquired 20 acres of land on Everglade Ave.

Fla., Miami—Investors Realty Corp. has acquired tract of 20 acres and will develop for subdivision; will construct roads and streets; install water, sewers, lights, etc.

Fla., Miami—N. B. T. Roney, 426 Collins Ave., Miami Beach, acquired 425 acres of ocean front land.

Fla., Miami—City, F. H. Wharton, City Mgr., plans voting on \$400,000 park bonds.

Fla., Miami—Shipp & Futch have acquired 80 acres on Palm Ave., Hialeah, and will develop.

Fla., Moore Haven—Haven Holding Co., capital \$10,000, incorporated with O. S. Miller, Pres.; Louis K. Miller, Sec.



Fla., Ocala—Buick Realty Corp., capital \$100,000, incorporated with F. R. Hocker, Pres.; M. J. Johnson, Sec.

Fla., Ocala—Chas. F. Burgman, Daytona, has acquired acreage on Fort King Ave., and will develop for subdivision; will construct streets, etc.; L. Latrobe Bateman, Landscape Archt. and Engr.

Fla., Oldsmar—Lehman Realty Co., capital \$50,000, incorporated with E. W. Lehman, Pres.; Sarah Lehman, Sec.

Fla., Orlando—Cooper-Atha-Barr Co., 112 S. Orange Ave., has acquired tract of land and will develop for sub-division; will construct streets, install water, sewer, electricity, gas, etc.

Fla., Ormond—Ormond Realty Co., capital \$10,000, incorporated with S. N. Cornwall, Pres.; Fred C. Merkle, Sec.

Fla., Sarasota—Morris Levi & Son, is developing Indian Beach Estates sub-division on Pineapple Ave at 5 Points; will construct 4 ft. cement sidewalks through entire development; install underground electric light and telephone wiring; water system; system of storm sewers to drain all water to the Bay; park system with ornamental foundation and entrances.

Fla., Sebring—L. B. Taylor of Tampa, and associates have acquired 140 acre tract and will develop for subdivision; Heslop Realty Co., 316 Franklin St., Tampa, will have change of development.

Fla., St. Augustine—John J. Parkhill, J. H. Knapp and others have acquired land on Anastasia and will subdivide; will construct roads, etc.

Fla., St. Petersburg—M. F. Taylor and associates will develop sub-division on Euclid Bldg.; will construct streets, sidewalks, etc.

Fla., St. Petersburg—W. McKee-Kelley Co., 659 Central Ave., representing Largo Investment Co., Largo, have acquired 7 acres of land.

Fla., St. Petersburg—Almand & Chapman Realty Co. will develop 80 acres as sub-division.

Fla., Tampa—R. C. Traub Organization, developers of Bel-Mar sub-division have selected Robert F. Smallwood, as landscape engineer for development work.\*

Fla., Tampa—Heonanda Plantation Co., capital \$15,000, incorporated with W. G. Gibbons, Jr., 823 S. Delaware Ave.; Charlotte Rider, Sec.

Fla., Tampa—Eloyd-Skinner Development Co., 108 E. Lafayette St., will develop 570 acres of land for subdivision; will pave streets, install water, gas, electricity, etc.; Ward Latham Co., 412 Franklin St., Gen. Contr.; McElroy Engineering Co., Constr., Engr., Giddens Bldg., Tampa; R. F. Smallwood, Landscape Archt., Clearwater.\*

Fla., Tampa—Buick Realty Co., David P. Buick, Pres., plans development of 1750 acres of land on Lake Weir for subdivision; will construct boulevard, etc.

Fla., Vero—Joe Baumker has acquired 19 acre tract of land and will develop.

Fla., West Palm Beach—Edward U. Roddy, Michael and associates have acquired tract of 29,000 acres of land in Highlands county and will develop for sub-division.

Fla., West Palm Beach—Golden Gate Development Co., lately noted incorporated with \$500,000 capital, C. W. Bingham, Pres., has 700-acre site in Palm Beach county opposite St. Lucie Inlet and will develop for town-site; will construct streets, sidewalks, install water, lights, etc.; G. W. Fisher, Archt., Lake Worth; Keystone Construction Co., Contr., West Palm Beach.\*

Fla., West Palm Beach—Palm Beach Land and Supply Co., capital \$50,000, incorporated with Chas. B. Woodruff, Pres.; H. P. Jones, Sec.

Fla., West Palm Beach—Edgewood Realty Co., capital \$100,000, incorporated with A. O. Greynolds, Pres.; J. Leo Gleason, Sec., has acquired tract of land and will develop for sub-division; will install water, sewers, electric lights, etc.

Fla., West Palm Beach—Malcolm Meacham Realty Co., capital \$300,000, incorporated with H. C. Fisher, Pres.; Ruth Young, Sec.

Ky., Paducah—James C. Utterback and others, lately noted having acquired 75 acres of Wallace Park, has not definitely decided on plans for development.\*

Ky., Pineville—G. H. Marting Realty Co., incorporated by G. H. Marting, W. T. Davis and others.

La., Baton Rouge—Westdale County Club, C. I. Fiero, V. P., 738 N. Boulevard St., has 50 acres of land and will develop for clubhouse and golf course, tennis courts, swimming pool, etc.; contract let to Scobell & Selfried for golf course.

La., Plaquemine—Sherburne Land & Development Co., capital \$250,000, incorporated with Henry N. Sherburne, Pres.; O. C. Roemer, Sec.

La., Port Allen—The Oaks, Inc., capital \$70,000, C. A. McDonald, Pres., Baton Rouge, has 1200 acres of land and will develop 100 acres in town lots and 700 acres in industrial sites; will construct streets, sidewalks, water mains and electric light; cost \$50,000.\*

La., Shreveport—City, Mayor Thomas, will probably improve parks and playgrounds during 1925; expend about \$25,000.

Md., Baltimore—The Highland Corp., 3 E. Lexington St., capital \$100,000, incorporated by Richard E. Preece, R. E. Lee Young, Wm. M. Travers.

Md., Baltimore—The Ruxton Co., 1120 Fidelity Bldg., incorporated by Phillip L. Poe, R. Bennett Darnall, Joseph P. Kennedy.

Mo., Carthage—Caffee Building Co., capital \$40,000, incorporated by W. W. Wright, 312 E. Macon St., Lacie C. Carter and others.

Mo., Jefferson City—James A. Houchin Realty Co., J. W. Webb, Sec., has 40 acres and will develop 10 acres for subdivision; will install extended city water mains, sewer system, gas and electric system; construct streets, etc.; expend \$50,000; James A. Houchin, Archt., 506 International Life Bldg., St. Louis.\* (See Machinery Wanted—Plumbing Fixtures; Roofing; Millwork.)

Mo., Kansas City—David S. McGonigle of McGonigle-Stinson-Metcalf, 215 K. & P. Bldg., will develop subdivision of 140 acres.

Mo., Kansas City—Exeter Realty Co., incorporated by C. H. Kirschner, 100 N. Y. Life Bldg., C. L. Bliss and others.

Mo., Kansas City—Wymozoca Realty Co., capital \$50,000, incorporated by Eugene S. Briggs, W. F. Wilkinson, 1412 E. Seventy-third St., Dale R. Nuss, and others.

Mo., Liberty—Wm. E. Lyons Real Estate & Mortgage Co., 1111 Waldheim Blvd., Kansas City, Wm. E. Lyons, Pres., is developing 80 acres, for Inez C. Hall for sub-division; will install city electric lights; septic sewer tanks; water works; grade and oil streets, etc.\*

Mo., St. Louis—Hellweg Realty Co., capital \$10,000, incorporated by F. L. Hellweg, A. E. Schmidt, A. L. Becker, 5710 Kennerly Street.

Mo., St. Louis—St. Louis Postal Station Realty Co., capital \$8000, incorporated with R. D. Brown, Pres.; Frank E. McKinney, Secretary.

N. C., Asheville—Hillcrest, Inc., capital \$100,000, incorporated by Guy Weaver, Legal Bldg., J. A. Patla and others.

N. C., Charlotte—Charlotte Land and Investment Co., capital \$700,000, incorporated by Geo. N. Adams, 8 E. Fourth St.; H. B. Keller and A. C. Walker.

N. C., Charlotte—The McAlpine Recreation Corp., J. L. Snyder, Pres., 1109 Queens Rd., Myers Park, has retained E. S. Draper, Landscape Archt. and Engr., 11 E. Fifth St., Charlotte, to make plans for development of recreation park on Monroe Rd., to include swimming pool, pavillion, filling stations, lunch rooms, bath houses and other features; pool will have filtration plant to purify water and will be 365x150 ft.

N. C., Concord—Concord Realty Co. increased capital from \$100,000 to \$500,000.

N. C., Greensboro—Hudson Realty Co., capital \$100,000, incorporated by C. C. Hudson, Elm St., Pearl Bowman, J. S. Duncan, Banner Bldg.

N. C., Raleigh—Wilson Park, Inc., capital \$125,000, chartered by D. F. Fort, Jr., W. S. Murchison, 609 Fayetteville St., and others.

N. C., Rutherfordton—Rutherford Golf and Country Club will probably develop 50 acres of land for golf course; George Ayton, Golf Archt., Biltmore.

N. C., Statesville—Isadore Wallace and John H. Gray have acquired additional land at Bridgewater on Lake James and will develop.

N. C., Winston-Salem—City has retained E. S. Draper, Landscape Archt. and Engr., 11 E. Fifth St., Charlotte, to prepare landscape plans for development of new City Hall grounds.

Okla., Antlers—Antlers Country Club, capital \$10,000, incorporated by C. E. Dudley, L. W. Weaver and others.

Okla., Henryetta—City may vote on development of 26 acres for park. Address The Mayor.

Okla., McKnight—McKnight Cemetery Association incorporated by C. I. Wells, W. F. Carter, I. B. Pierce.

S. C., Greenville—Karpf & Rosenblatt, Inc., capital \$50,000, chartered by Louis C. Rosenblatt, A. P. Coles.

S. C., Greenville—Mountain Lake Colonies Co., Southeastern Bldg., J. A. Piper, Pres., will develop 800 acres for summer homes.\*

S. C., Greenville—McCain-Harling Realty Co., incorporated with W. E. McCain, Pres., 113 Lavinia Ave.; W. M. McCain, Sec.

Tenn., Memphis—Central Realty Co., 110 N. Court St., capital \$250,000, incorporated by E. M. Ellis, M. C. Jones, A. B. Newman.

Tex., Brownsville—George and Phillip Masard of Drumwright, Okla., will develop 100 acres for citrus orchard.

Tex., Dallas—Maple Lawn Highlands Co. incorporated by O. G. Roquemore, A. W. Stickle and others.

Tex., Houston—Winlow Place Co. lately noted increasing capital to \$150,000, has acquired 54 acres and will develop for subdivision.\*

Tex., Houston—W. T. Carter Lumber and Building Co., Liberty and Maury Sts., has acquired 2200 acres of land on Telephone Road and will develop for sub-division; will construct roads; install water, sewers, electric lights, etc.

Tex., Houston—Arroyo Country Club, W. H. Steffins Pres., has 22 acres and will develop for golf course, lockerhouse and lounge, swimming pool, tennis courts, club house, etc.

Tex., Houston—Seaport and Co., capital

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

\$50,000, incorporated by C. W. Shearer, W. G. Burchfield, 349 Kress Bldg., and others.

Tex., Marshall—D. E. Colp, Chrmn. State Park Board has 124 acres of land for park site.

Tex., San Benito—Pugsley Plantation Co., capital \$75,000, incorporated by C. S. Pugsley, W. G. Morrison and others.

Tex., Sherman—Fairview Country Club, T. G. Blocker, has 74 acres and will develop; will construct 660 ft. clay and earth dam, impounding lake covering approximately 22 acres; also plans bathing beach, etc.

Tex., Wichita Falls—W. B. Hamilton and N. H. Martin of Texhoma Oil and Refining Co. acquired 400 acres of land and will develop.

Va., Richmond—Blitherwood Plantation Co., incorporated with Madeline D. Barras, Pres., J. Virginia Barras, Sec.

Va., Roanoke—Brookwood Farms Corp., capital \$10,000, incorporated with Vernon M. Wood, Pres.; Homer L. Wald, Sec.

W. Va., Barboursville—Oak Forest Land Co., capital \$50,000, incorporated by W. E. Estler, C. V. Updike, C. R. Miller.

### Lumber Enterprises

Ala., Billingsley—Mauney Lumber Co., capital \$50,000, incorporated by W. W. Hicks, O. M. Mull, J. B. Mauney.

Ala., Columbiana—Atchinson Lumber Co. incorporated by W. F. Davis, W. L. Christian and W. F. Atchinson.

Ark., Rogers—The Hamby & Roberts Lumber Co. will establish mill at Van Winkle Hollow; will probably move mill from Rogers.

Fla., Port Orange—Lyon-Staver Lumber Co., capital \$100,000, incorporated by D. E. Lyon, Pres.; Maude A. Stover, Sec.

Ky., Bell Point—Line Fork Lumber Co., H. H. Hensley, has 11,000 acres to develop; will open bids for machinery in about 30 days; Chas. Rice, Const. Engr., Irvine, Ky. (See Machinery Wanted—Band Mill.)

Ky., Corbin—Corbin Lumber Co., capital \$50,000, incorporated by C. C. Smith, W. B. Riley and G. M. Kelley.

Ky., Lexington—The Kings Creek Timber Co., capital \$400,000, incorporated by W. F. Field and others.

Ky., Mater—Wiley Gibson will develop lately acquired timber land, install sawmill, etc.

Mo., Cape Girardeau—Riverside Lumber Co., 314 S. Ellis St., will rebuild burned plant.

N. C., Robbinsville—H. C. Bemis Lumber Co. of Bradford, Pa., reported to have plans for developing 180,000 acres timber land in Graham County, build railroad from Toppton to Robbinsville, erect lumber mills, etc.; estimated cost \$4,000,000.

Tenn., Memphis—T. L. Shannon & Bro., Inc., capital \$100,000, chartered by T. L. Shannon, W. C. Brook, L. E. Green, 40 E. Norwood St.

W. Va., Richwood—Cherry River Boom & Lumber Co., main office Scranton, Pa. will rebuild planing mill, burned at loss of \$300,000.

### Metal-Working Plants

Mo., Kansas City—American Steel Works, capital \$7000, incorporated by Clarence R. Huston, 432 N. Oakley; David L. Smart and others.

Tex., Houston—Tennison Manufacturing Co., H. B. Tennison, Prop. will erect 100x250-ft., 3-story building at corner Franklin, Hamilton and Commerce Sts., brick and concrete; will install equipment; daily output 2 cars of sheet metal products; Joseph Finger, Archt., Keystone Bldg., will receive bids on both building and equipment.\*

### Mining

Ala., Birmingham—Pinson Ore Corp. chartered by R. N. McDonough, N. W. Shannon and Dr. G. E. Murphy, Woodward Bldg.

Ark., Camden—Graves Brothers Corp., capital \$200,000, chartered by E. F. Graves, T. J. Gaughan, B. L. Graves.

Kentucky—Aluminum Company of America, Oliver Bldg., Pittsburgh, Pa., reported to have acquired one of the three large fluorspar mines in the Illinois section of the Illinois-Kentucky fluorspar field and about 15 smaller properties in the Kentucky section.

Wire from company states: "Franklin Fluorspar Co., which we control, has added to its holdings in Illinois and Kentucky the Fairview Fluorspar mine and some properties of the Kentucky Fluorspar Co. which it will operate in connection with its own mines, is making no plans for new development as present market conditions do not justify increased production."

Ky., Frankfort—Harlan-Fox Mining Co., capital \$250,000, incorporated by C. Paul Doward, Elmore Manning, J. M. Dougherty.

Ky., Louisville—Garfield Rock Asphalt Co., capital \$100,000, incorporated by Dr. Milton Board, N. E. McDaniel and Paul Compton, 1636 E. Parkway.

Mo., Joplin—Consolidated Lead & Zinc Co., capital \$300,000, reported organized for the consolidation of the H. T. Grave B., La Salle and the half interests of the S. R. & W. Hartley Companies; new organization to take over properties about January 1, 1925.

Mo., Pierce City—Lime Phosphate Corp., organized with L. E. Brougher, Pres.; F. W. Voelpel, Sec., both Aurora, Mo.; have 1250 acres to be developed, operations just started; install crushing and drying machinery; bids opened.\*

Okla., Enid—Oklahoma Material Co., capital \$25,000, incorporated with A. J. Mahoney, Pres.; J. H. Mahoney, Jr., Sec.; has acquired 160 acre sand deposits, will develop.

Tex., Trinidad—Details under Electric Light and Power Plants.

### Miscellaneous Construction

Ark., Fayetteville—Swimming Pool—Details under Miscellaneous Enterprises.

Fla., Arcadia—Swimming Pool—Details under Land Development.

Fla., Daytona—Docks—City let contract to Ralph Nutting to build temporary landing docks.\*

Fla., Deland—Canal—Details under Land Development.

Fla., Fort Lauderdale—Seawall, etc.—Dock Committee, plans building additional seawall and docks on both sides of New river, east of Dixie Highway; has \$20,000 available.\*

Fla., Maitland—Dredging, etc.—City voted \$3000 bonds to complete dredging and improving Lily Lake. Address City Clerk.

Fla., Miami—Dredging—Clark Dredging Co., 356 Southwest North River Drive, has contract for dredging dock basin and channel around the P and O docks.

Fla., Miami—Harbor, etc.—City, F. H. Wharton, Mgr. plans voting on \$400,000 bond for harbor and warehouses; and \$50,000 for incinerator and garbage equipment.

Fla., Palm City—Fill—Standard Realty Development Co., E. M. Cleveland, Pres., 118 Myrtle St., West Palm Beach, advises: "Regarding work to be done on the St. Lucie river front, contract has not been let, but the undertaking involves bulkhead about 3000 ft.

long, requiring approximately 80,000 cu. yds. of fill work; work to be done the present season.\*

Fla., West Palm Beach—Inlet—A. Bently & Sons, 201 Belmont Ave., Toledo, Ohio, have begun work on the \$182,000 South Lake Worth inlet connecting lake and ocean; plans call for cut 400 ft. long and 100 ft. wide; the Ocean Blvd. will cross it on a rainbow arch carrying a 24-ft. roadway with 5-ft. sidewalks.\*

Fla., West Palm Beach—Terminals—Pinewood Development Co., D. F. Dunkle, Pres., advises: "With reference to railway tracks in Norwood Terminals, I beg to advise that this work is being done with reference to the improvements made by Seaboard Air Line, which is being built in this city. Contract for clearing, excavating streets and sidewalks, has already been let; contract for furnishing the railroad ties and rails has not been let, but it is planned to work this out in connection with Jefferson Construction Co.; Carr & McFadden are our engineers looking after the work of the company."

La., New Orleans—Spillway—Orleans Levee Board considering the building of miniature spillway in conjunction with the proposed outlet below Pointe a la Hache; estimated cost \$100,000.\*

Mo., Kansas City—Elevator—Grain Marketing Co., Geo. H. Davis, V. P., 4116 Warwick St., has leased the Santa Fe elevator; reported to expend approximately \$2,000,000 on new additions and improvements, increasing capacity to 6,000,000 bushels, also building additional tracking facilities, etc.

Grain Marketing Co. wires: "New working house being constructed Santa Fe elevator, operated by us here; John S. Metcalf Co., 108 S. LaSalle St., Chicago, Ill., Engrs. and Contrs.; usual equipment up to date elevator plus four automatic car dumpers, will be electrically operated and completed for next crop."

N. C., Charlotte—Swimming Pool—Details under Land Development.

N. C., Wilmington—Speedway—State Highway Comsn. received bid from J. F. Mulighan, North Wilkesboro, at \$51,496, for grading Wilmington-Wrightsville speedway; Addison Hewlett, Chmn. Board County Commrs.

S. C., Anderson—Memorial Gateway—Mrs. W. A. Hudgens and associates interested in erecting gateway at Memorial Athletic Field.

Tex., Beaumont—Wharves, etc.—City will vote soon on \$200,000 bonds for wharves and docks; Ollie J. Bloyd, City Mgr.\*

Tex., Dallas—Wall, etc.—Dallas Development Co., Western Independent Bldg., let contract to H. J. Curtis, 1209½ Main St., to erect 2055-ft. brick and stucco wall of Spanish design containing ornamental entrances and pylons along the Preston Road fronting new residential subdivision; David R. Williams, Archt., S. W. Life Bldg.

Tex., Houston—Elevator—Port Comsn., Capt. C. B. Allin, Director of Port, rejected bids for \$1,000,000 grain elevator with an initial capacity of 1,250,000 bu.; are considering structure of 2,500,000 bu. capacity, which also calls for additional funds.\*

Tex., San Antonio—Swimming Pool—City Comsn. has \$25,000 available for swimming pool on West Side, 150x50-ft., concrete construction; also has plans for improving pool at Breckenridge Park, will add concrete bottom and widen in places from 25 to 30 ft.

Tex., Waco—Water Tank—Details under Railway Shops, Terminals, Roundhouses, etc.

Va., Lynchburg—Steps—City contemplates building Ninth Street steps as Hero Memorial,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



estimated cost \$50,000. Address City Manager.

Va., Norfolk—General Acceptance & Finance Corp., W. W. Robertson, Pres., Flat Iron Bldg., proposes to take over property adjoining the Ford site at Newton Park, develop into building lots, bonded warehouses and site for assembly and industrial plants; plans provide for forwarding and shipping center with two large warehouses, with space for 125 cars on waiting platform, also berths for at least three large ships at one time. (See Machinery Wanted—Elevators (Freight); Dock Loading Machinery, etc.; Cars (Dock), Tram.)\*

### Miscellaneous Enterprises

Ala., Birmingham—Federal Carbide Co., capital \$50,000, incorporated with Theodore Swann, Pres., Brown-Marx Bldg., C. M. Jesperson, Sec.

Ala., Birmingham—Alabama Traveler Publishing Co. incorporated by Thomas W. Cannon, Wm. R. Mabry, Morris Hotel, and J. F. Scofield.

Ala., Eutaw—Eutaw Hotel Co., Inc., capital \$25,000, chartered by C. M. A. Gogers, W. J. Lewis, H. F. Grubbs.

Ala., Birmingham—Mackie-Underwood Construction Co. incorporated by F. E. Mackie, D. T. Underwood and James Mackie.

Ala., Jasper—Peoples Drug Co., capital \$15,000, incorporated by T. R. Tucker, Emma W. Palmer and others.

Ala., Mobile—Mobile Paint Manufacturing Co., 62 S. Commerce St., W. A. Benson, Pres., has acquired 4-story building corner Dauphin and Water St., is remodeling; will install new mills and other equipment, all purchased.

Ala., Mobile—Anti-Phymin Distributors, Inc., chartered with Charles A. Nesom, Pres.; Maud S. Nesom, Sec.

Ala., Troy—Woco Pep Co., capital \$15,000, incorporated by H. H. Gardner, Irby Vann, H. K. Gardner.

Ark., Blytheville—The Nugrape Bottling Co., capital \$12,000, incorporated by E. L. Jones, P. M. Nelson and Raymond Cooper.

Ark., Fayetteville—Blue Goose Amusement Park, capital \$40,000, incorporated with E. M. Ratcliff, Pres.; G. A. London, Sec.-Mgr.; will soon begin construction of amusement park, including 50x125-ft. open-air swimming pool, dance pavilion, antique tea-room, etc.; has three-acre site.

Ark., Fayetteville—City contemplates purchasing additional fire fighting equipment. Address The Mayor.

Ark., Formean—Anderson-Hopson, Inc., capital \$30,000, incorporated by E. L. Jones, J. W. Hopson, Jr., and W. H. Hopson.

Ark., Little Rock—Rector Building Co., capital \$50,000, incorporated with Rector L. Williams, Pres.; James A. Cameron, Sec.

Ark., Little Rock—Charles T. Abeles & Co., 2101 E. 17th St., increased capital from \$75,000 to \$300,000.

Ark., Warren—Eagle Printing Co., capital \$10,000, incorporated by J. C. Jolly, Z. K. Thomas, R. W. Fullerton.

D. C., Washington—Pacific Coast Terminal Co., capital \$100,000, incorporated by Ellwood P. Morev, Wm. Henry White, both Evans Bldg., and others.

Fla., Bonifay—Details under Water Works.

Fla., Cocoa—Hylton Cafes, capital \$25,000, incorporated with T. P. Hylton, Pres.; Emma Booth, Sec.

Fla., Fort Lauderdale—The Young Builders Co., capital \$10,000, incorporated with A. D. Young, Pres.; S. D. Young, Sec.

Fla., Fort Myers—I. W. Riggs Co., capital \$10,000, incorporated with I. W. Riggs, Sr., Pres.; L. L. Long, Sec.

Fla., Fort Lauderdale—Shad Baking Co., capital \$10,000, incorporated by Harold W. Shad, Pres.; Alam A. Shad, Sec.

Fla., Jacksonville—H. G. Morrow & Co., capital \$100,000, incorporated with H. G. Morrow, Pres.; Edgar W. Waybright, Sec.-Treas., St. James Bldg.

Fla., Jacksonville—Michigan Pipe Co. of Bay City, Mich., will establish branch office in the Professional Bldg.

Fla., Jacksonville—Southern Baking Co., Harry D. Tipton, Pres., New York; Catherine Hudgins, Sec.; Byron C. Dorsey, Mfg., 214 W. 11th St., Jacksonville, reported to have purchased plant of the Dorsey Baking Co.; plans erecting \$350,000 addition to building at 2341 Main St.

Fla., Jacksonville—Nu-Wa Tater Flake Co. incorporated with R. J. Wynne, Pres.; Harry F. Mills, Sec.-Treas.

Fla., Jacksonville—Vincent & Co., Inc., capital \$10,000, chartered with D. B. Vincent, Pres., 142 S. Goodwin St.; J. M. Lorimer, Sec.

Fla., Lake Worth—Lake Worth Construction Co., capital \$10,000, incorporated with Riley Cato, Pres.; T. H. Smith, Sec.

Fla., Little River—Fire Fighting Equipment—W. A. Post, Chief of Fire Dept., will probably purchase Type 75 American La France engine, etc.; estimated cost \$12,500.

Fla., Miami—Apex Tropical Fruit, Inc., capital \$50,000, chartered with D. Pappas, Pres.; S. Pappas, Sec.

Fla., Miami—George H. Palmer Co., Inc., capital \$250,000, chartered with Geo. K. Palmer, Pres., 149 N. E. First St.; James R. Duffey, Sec.

Fla., Miami—Miami Sunshine Creameries, capital \$300,000, incorporated with Wm. E. Arnold, Pres., N. E. 27th St.; Ernest Britton, Sec.

Fla., Miami—Venetian Hotel Corp., capital \$500,000, chartered with Hugh M. Anderson, Pres.; Josiah F. Chaille, Sec., 105 N. E. Second Ave.

Fla., Miami—Louisville-Florida Co., capital \$127,000, incorporated with Sarah Rosenhupse, Pres.; Nan Gautier, Sec.

Fla., Miami—Clifton Downs, Inc., capital \$25,000, chartered with Max Gross, Pres.; John L. Whittaker, Sec.

Fla., Miami—Baker-Riddle Co., capital \$50,000, incorporated with D. F. Baker, Pres.; Valencia Apts.; J. E. Riddle, Sec.

Fla., Ormond Beach—East Coast Bottles Gas Co., incorporated with C. L. Garner, Pres.; A. B. Esch, Sec.

Fla., Palm Beach—E. M. Brelsford, Inc., capital \$500,000, chartered with E. M. Brelsford, Pres.; E. M. Brelsford, Jr., Sec.

Fla., Pensacola—Thagon Cigars, Inc., chartered with Thomas S. Kennedy, Pres.; J. D. Thomas, Sec.

Fla., Safety Harbor—McKinley & Langston, Inc., capital \$10,000, chartered with W. J. McKinley, Pres.; R. E. Langston, Sec.

Fla., St. Petersburg—Modern Towel & Linen Supply Co., capital \$25,000, incorporated with S. E. Boughton, Pres.; C. R. Doddridge, Sec.-Treas.

Fla., Sarasota—South Florida Construction Co., capital \$75,000, incorporated with W. A. Cook, Pres.; John Marner, Sec.

Fla., Tampa—Sheldun-Huffaker, Inc., capital \$50,000, chartered with Jacques Sheldun, Pres.; G. G. Huffaker, Jr., Sec., 111 Fielding Ave.

Fla., Tampa—Springdale Co., capital \$50,000, incorporated with M. G. Gibbons, Jr., Pres.; Lamar Rankin, Sec., 916-17 Citizens Bank Bldg.

000, incorporated with M. G. Gibbons, Jr., Pres.; Lamar Rankin, Sec., 916-17 Citizens Bank Bldg.

Fla., Tampa—Blueprint Service Co., incorporated with H. E. Freeman, Pres.; E. P. Brown, Sec., 7203 Huntley Ave.

Fla., West Palm Beach—Olympia Beach Hotel Corp., capital \$500,000, chartered by David D. Vincent, Geo. W. Study, both 165 Broadway, New York, and others.

Fla., West Palm Beach—H. L. Reynolds Co., Inc., capital \$10,000, chartered with H. L. Reynolds, Pres.; I. L. Hargrove, Sec.

Fla., Winter Haven—W. P. Yonnally & Co., Inc., capital \$250,000, chartered with W. P. Yonnally, Pres.; Ethel M. Collins, Sec.

Ga., Athens—The Michael Wholesale Corp., capital \$100,000, chartered by Simon Michael and Ernest Michael.

Ga., Augusta—Richmond Hotel Co., Inc., capital \$100,000, chartered by Lawrence S. Barringer, James W. Heape and others.

Ga., Columbus—Miller Taylor Shoe Co., 1218 Broad St., capital \$45,000, incorporated by W. L. Miller, T. E. Taylor and H. H. Flannagan.

Ga., Columbus—Rose Hill Greenhouses, capital \$10,000, incorporated by J. B. Knight, Jr., E. J. Knight and A. J. Klingon, 625 Broad St.

Ga., LaGrange—McLendon Medicine Co., capital \$20,000, incorporated by Y. T. McLendon, Lois McLendon and others.

Ga., Savannah—Southern Baking Co. has acquired the plant of the Schaefer Bakery, Inc., at Jefferson and Hull St. with additional holdings.

Ky., Ashland—Blackstone-Miller Co., capital \$25,000, incorporated by John Blackstone, E. W. Miller and others.

Ky., Bowling Green—Southern Cut Stone Co., capital \$100,000, incorporated by Henry Almstedt, J. H. Pickles and others.

Ky., Frankfort—Kentucky Sanitary Bedding Co. incorporated by D. P. Smith, J. H. Noland and others.

Ky., Frankfort—Stabile Construction Co., capital \$20,000, incorporated by Peter Stabile, Santo Stabile and others.

Ky., Louisville—Miller Distributing Co., capital \$10,000, incorporated by John H. Culton, Charles G. Black and C. S. Culton.

Ky., Louisville—Golden Rule Laundry Co., capital \$20,000, incorporated by Joseph F. Schaefer, J. B. Thomas and J. N. Thomas.

Ky., Louisville—H. W. Nelson Co. incorporated by A. C. Danielson, Albert G. Ziesk and others.

Ky., Middlesboro—Cumberland Hotel Operating Co., capital \$50,000, incorporated by Jacob Schultz, H. H. Sprague and W. V. Tennent.

Ky., Middlesboro—The Anderson Indian Remedies Co., capital \$150,000, incorporated by J. F. Bosworth, B. J. Bethrum and E. S. Helburn.

Ky., Middlesboro—Anderson Indian Remedies Co., capital \$150,000, incorporated by J. F. Bosworth, E. S. Helburn and B. J. Bethrum.

Ky., Mt. Sterling—The Maurice Hotel Co., capital \$25,000, incorporated by Allie G. Hunt, Maurice Todes, and others.

Ky., Newport—Fairfield Amusement Co., incorporated by Wm. Kinsella, Louis Dramer, Wm. Schneider.

La., Monroe—Central Creamery Co., Inc., chartered with H. H. Haggard, Pres.; E. D. Harris, Sec.-Treas., Park Ave

La., Monroe—Orvin-Kent Co., 215 S. Fifth St., plans erecting \$25,000 ice cream factory

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

on S. Grand St., 2-story, 60x100 ft., solid masonry and fireproof.

La., New Orleans—W. Horace Williams Co., Inc., capital \$100,000, chartered by W. Horace Williams, 7003 St. Charles Ave.; C. Glenn Cappel, 2531 Milan St.; Jos. L. V. Grenier, 1103 Napoleon St.

La., New Orleans—Anti-Rust Paint Co. of La., Inc., capital \$20,000, chartered with Lewis O. Higgins, Pres., 2301 Wirth Place; Gustave A. Werner, Sec.-Treas., 3128 Upperline St.

La., New Orleans—Barker Baking Co., Inc., capital \$62,700, chartered with Charles Levey, Pres., 6126 St. Charles Ave.; Alfred Allmont, Sec.-Treas.

Md., Baltimore—Board of Awards, F. A. Dolfeld, Register, received low bids from A. P. Smith Manufacturing Co. at \$150,000 for new hydrants.

Md., Baltimore—F. P. Burgess Co., 2735 W. North Ave., capital \$10,000, incorporated by Charles Kummer, Francis P. Burgess and Mary A. Burgess.

Md., Baltimore—Keyway Stevedoring Co., 22 Light St., incorporated by Thomas E. Carson, Athos W. Besosa and Wm. H. Stayton.

Md., Baltimore—Printing—O'Donovan Brothers, Inc., 221 Park Ave., capital \$100,000, chartered by Jeremiah J. O'Donovan, William C. O'Brien and others.

Md., Baltimore—Williams & Wilkins Co., Edward B. Passano, Pres., Mt. Royal and Guilford Ave., let contract to Price Construction Co., Maryland Trust Co. Bldg., at \$70,000 for 4-story, 54x60-ft. addition, reinforced concrete, daylight construction, slag roof, concrete floors.\*

Md., Elkton—Oriental Co-operative Drug Co., Inc., capital \$100,000, chartered by Harvey W. James, Augustus W. Finch and Harry Cunningham.

Md., Leonardtown—The Potomac Co., capital \$125,000, incorporated by Lawrence P. Williams, Stephen M. Jones, Joseph A. Saunders.

Md., Oakland—Haggerty Cigar Co., capital \$50,000, incorporated by James S. Haggerty, Wm. Preyfogel.

Mo., Brandsville—Missouri Vineyards Corp., Central National Bank Bldg., St. Louis, capital \$25,000, incorporated with G. C. Baker, Pres.; W. J. James, Sec., has acquired 1000 acres of land and will develop for grape culture; establish grapejuice factory.

Mo., Elmo—Bradley Farms Necro Mineral Co., capital \$15,000, incorporated by O. E. Bradley, Z. R. Alexander, E. A. Carlson; manufacture mineral compounds.

Mo., Jefferson City—Tribune Printing Co. incorporated by John F. Koester, L. E. Lutkewitte and others.

Mo., Kansas City—Kansas City Macaroni and Importing Co., 562 Campbell St., R. Sarli, Pres., reported to construct \$140,000 addition to plant.

Mo., Kansas City—Harrington Callopo Co., Los Angeles, Cal., has leased building at Sixth St. and Broadway and will erect branch manufacturing plant.

Mo., Kansas City—Kansas City Macaroni and Importing Co., R. Sarli, Pres., 562 Campbell St., has let contract for construction of \$140,000 addition to plant at Pacific and Campbell Sts.

Mo., Kansas City—Missouri Lead Products Co., capital \$10,000, incorporated by Joseph M. Walters, 1007 Central St., John N. Davis, Gloyd Bldg., and others.

Mo., Savannah—Andrew County Democrat and Savannah Reporter have consolidated.

Mo., St. Louis—St. Lotis Tanneries, Inc.,

chartered by Irl B. Rosenblum, Central National Bank Bldg.; Clyde W. Wagner, and others.

Mo., St. Louis—Rice-Stix Dry Goods Co., 1002 Washington St., leased portion of building, N. E. cor. Olive and Fifteenth Sts., and will establish plant for manufacturing women's garments.

Mo., St. Louis—St. Louis Cutting Die Co., capital \$25,000, incorporated by Gustav Young, 6218 S. Kingshighway, Lee Dent, Charles A. Messmer.

Mo., St. Louis—New Olive Hotel Co., capital \$40,000, incorporated by Henry L. Weeks, 3504 E. Dodier St., Edward E. Butler, 810 Wainwright Bldg., and others.

Mo., Springfield—Fred Garrett, 1403 N. Grant St.; C. O. Sperry and associates will organize company with \$100,000 capital, to operate rock crusher.

N. C., Asheville—Denison Manufacturing Co., capital \$25,000, incorporated by Anne B. Denison, J. A. Pada, Eva L. McEniry; manufacture powdered soap.

N. C., Asheville—City Commrs. will install additional fire-fighting equipment in municipal building.

N. C., Asheville—R. F. Holland, Propr. of Berkeley Drug Store, 45 Biltmore Ave., will erect \$100,000 factory building.

N. C., Charlotte—Charlotte Flint Co., 306 N. Tryon St., increased capital from \$100,000 to \$400,000.

N. C., Charlotte—Atlantic Marble & Tile Co., 203 S. Poplar St., reported to construct plant for manufacturing tile building blocks from chipped marble; brick; 45x75 ft.; will install special machinery, including series of drills, presses, rubbing machinery, etc.

N. C., Hickory—Clay Printing Co., publishers of Hickory Daily Herald, 1402 Eleventh Ave., has building 25x80 ft. and will remodel, install steam heat, lights, etc.; Perry & Bowles, Contr.\*

N. C., North Wilkesboro—International Shoe Co., 1505 Washington St., St. Louis, Mo., has acquired Smoot Tannery; will probably enlarge and increase output of leather.

N. C., Winston-Salem—Black Mule Harness Co., capital \$100,000, incorporated by W. W. Smoak, 707 W. Fourth St.; J. F. McCulston, and others.

N. C., Winston-Salem—Nuglans, Inc., capital \$100,000, chartered by Dr. K. D. C. Watson, Arthur Seale, Winston Apt., and others; manufacture candy laxative.

N. C., Winston-Salem—Winston-Salem Elks Home Co. incorporated by J. F. Smithdean, 1183 W. Fourth St.; H. F. Masten and others.

Okla., Antlers—Antlers Co., capital \$10,000, incorporated by C. E. Dudley, L. W. Weaver and others.

Okla., El Reno—J. R. and T. W. Maher, Proprs. of El Reno Daily Democrat have acquired building at 209 S. Rock Island St. and will improve.

Okla., McAlester—City may vote on \$85,000 bonds for fire equipment. Address The Mayor.

Okla., Ponca City—Rainbow Contracting Co., capital \$10,000, incorporated by J. H. Mead of Three Sands; W. A. Bradford and C. C. Bradford, both of Blackwell.

Okla., Sand Springs—Davis Manufacturing Co., capital \$50,000, incorporated by Geo. W. Davis, W. B. Moss and others.

Okla., Sapulpa—Shirley Building Co. incorporated by G. B. Hoagland, Geo. T. Miller and others.

Okla., Tulsa—Tidall-Duan Co., capital \$200,000, incorporated by W. C. Franklin, A. A. Beard, 124 E. Jasper St., and others.

Okla., Tulsa—Central Milk Products Co., Chanute, Kan., reported to construct creamery and milk handling plant on North Denver St.

Okla., Tulsa—Ward Chemical Co., capital \$20,000, incorporated by Wm. V. Ward, Chas. P. Quinlan, M. F. Powers, Chestnut and Smith Sts.

S. C., Columbia—Standard Draft and Regulator Spark Arrestor Co., capital \$10,000, incorporated with J. H. Stannard, Sr., Pres.; T. C. Brown, Sec.

S. C., Columbia—Fireproof Building Material Co., capital \$50,000, incorporated with D. G. Zeigler, Pres.; G. B. Ives, Treas.

S. C., Spartanburg—The Williams Printing Co., incorporated with \$10,000 capital, will establish printing plant; will install linotype, cylinder, job presses, cutter, wire stitcher and other necessary machinery.\*

Tennessee—Consolidation is reported of the American Bag Co., Memphis; Buffalo Bag Co., Buffalo; Chase Bag Co., St. Louis and Kansas City, Mo.; Cleveland-Akron Bag Co., Cleveland, O.; Milwaukee Bag Co., Milwaukee, and Northern Bag Co., Minneapolis; new organization to be known as Chase Bag Co., with L. B. Falls, Pres. of local company.

Tenn., Greenville—S. C. Wells Co. of LeRoy, N. Y., acquired plant of Brown Manufacturing Co.

Tenn., Johnson City—S. E. Guinn Manufacturing Co., S. E. Guinn, Pres., 1422 Providence St., Cincinnati, O., reported to remove plant to Johnson City; has site on E. Maple St., and will establish plant for manufacturing automatic lighting devices.

Tenn., Lebanon—Lebanon Development Co., capital \$100,000, incorporated by George Goladay, J. H. Williams and others.

Tenn., Memphis—P. F. Crenshaw, 818 Kentucky St., will construct \$20,000 factory.

Tenn., Memphis—Cole-Carlin, Inc., 1048 Union Ave., capital \$20,000, incorporated by F. L. Ingram, Forest Cole, W. L. Carlin.

Tenn., Memphis—Memphis Fur Corp., capital \$50,000, incorporated by Geo. H. Blum, Sydney Baer, Carnes Ave., and others.

Tenn., Memphis—Swift & Co., Union Stockyards, Chicago, reported to erect lard refining plant; combination of 3 story and single story building; concrete, steel construction; cost about \$70,000.

Tenn., Memphis—Electric Appliance Co., capital \$10,000, incorporated by Thornton Newsum, Julian E. Phelan, O. H. Davis, 187 Madison St.

Tex., Dallas—H. H. Hodge Co. incorporated by H. H. Hodge, C. H. Stewart, 4118 Second Ave., Walter Cook.

Tex., El Paso—F. B. White Typewriter Co., 327 N. Oregon St., increased capital to \$10,000.

Tex., Orange—Sabine Battery Co., W. H. Marmion, Pres., will erect 50x50-ft. fireproof brick building corner Green Ave. and Third St.

Tex., Fort Worth—Swansdown Dust Cloth Co., incorporated by A. F. Robertson, W. A. Martin, S. J. Robertson.

Tex., Fort Worth—Bunker, Molyneux and Frost, Inc., increased capital to \$60,000.

Tex., Fort Worth—The Equipment Co., 231 W. 15th St., increased capital from \$109,000 to \$176,000.

Tex., San Antonio—Lloyd's, Inc., capital \$10,000, chartered by Everett Lloyd, B. J. Kischell and J. N. Kincaid; publish magazine.

Tex., Temple—American Laundry Co. will construct \$20,000 plant on S. Main St. and Ave. F; brick and concrete; 50x110 ft.



Tex., Wichita Falls—Wichita Falls Theater Co., capital \$50,000, incorporated by J. W. Farabee, O. H. Rahi and others.

Va., Hampton—Messick Rapid Transit Co. incorporated with L. M. Von Schilling, Pres., 45 Bank St.; J. A. Field, Sec.

Va., Lynchburg—Rivermont Dry Cleaning & Dye Works, Inc., capital \$25,000, incorporated with H. W. Lovelane, Pres.; H. B. Hughes, Sec., 904 Harrison St.

Va., Martinsville—Stultz Dry Cleaners and Dyers, Wm R. Stultz, Propr., Fayette St., will erect 1 story, 25x30-ft. building; brick with steel sash and plate glass front; wood and cement floors; metal roof; will install dye vat, drying tumbler, 36-in. extractor, large washer and additional clarifier, press, (See Machinery Wanted—Dyeing and Cleaning Equipment.)

Va., Norfolk—Delicious Pie Co. incorporated with R. H. James, Pres.; S. H. McCaleb, Sec., Law Bldg.

Va., Norfolk—Industrial Bee Hive Corp., R. B. Newton, Pres., 2000 W. Ghent Blvd., reported to soon begin construction of industrial beehive plant; has option on site at Hampton Blvd. and Twenty-fifth St.; building will be 220x220 ft.; 2 stories; cost about \$300,000.

Va., Richmond—American Heating and Ventilating Co. increased capital from \$10,000 to \$50,000.

Va., Waverly—J. E. Wilcox, Pres. of First National Bank, has acquired Waverly Peanut Co.'s building and will operate.

W. Va., Charleston—Capital City Barber Supply Co., capital \$25,000, incorporated by B. F. Stephens, H. T. Heurting, 1005 First Ave., and others.

W. Va., Charleston—R and C Manufacturing Co. increased capital from \$100,000 to \$175,000.

W. Va., Huntington—G. W. Lancaster, 2209 Lamb Ave., Richmond, Va., contemplates establishing chain of assembling plants for steel window products.

W. Va., Lewisburg—Fort Savannah Hotel, capital \$100,000, incorporated by Walter F. Martens, T. C. Carney and others.

W. Va., Parkersburg—United Woolen Mills Co., T. E. Cofer, Mgr., will probably rebuild burned building.

### Motor Cars, Garages, Tires, Etc.

Ala., Oneonta—J. B. Trammel and W. J. Jeffrey will erect drive-in service station corner First Ave. and Third St.

Fla., Arcadia—Details under Land Development.

Fla., Blountstown—Finlayson Motor Co., capital \$25,000, incorporated with J. J. McCaskill, Pres.; C. P. Finlayson, Sec.

Fla., Daytona—Green Brothers, Ray Green, Mgr., let contract to the Ingalls Iron Works, 720 Avenue D, Birmingham, Ala., for 2-story, 118x45-ft. steel construction, building which will connect with present structure on Magnolia Ave.

Fla., Little River—Home Service Corp., capital \$10,000, chartered with Horatio Gilbert, Pres.; Wm. A. Webster, Jr., Sec., 245 N. E. 20th Terrace, Miami.

Fla., Mulberry—Mulberry Motor Co., capital \$20,000, incorporated with W. C. Bellen-ger, Pres.; P. W. Burmetts, Sec.-Treas.

Ky., Louisville—Kentucky Garage, 521 Crutcher Starks Bldg., has plans for public garage building to be erected at Sixth and Jefferson Sts., capacity from 400 to 600 automobiles.\*

Ky., Louisville—Garage—Dr. Edward Voss will erect \$20,000 garage at 108 W. Liberty St.; fireproof.

Ky., Louisville—Garage—L. Jacobson & Sons reported having plans for \$300,000 garage building on Fifth St.; 10-story, 85x178 ft., concrete; Joseph & Joseph, Archts., Francis Bldg.

Wire from L. Jacobson & Son, 1600 S. First St., states: "Regarding garage, location 444 S. Fifth St., reinforced concrete throughout; Joseph and Joseph, Archts., Francis Bldg.; Henry Bickel Co., 443 Garden St., excavating; balance of work by ourselves; work to start immediately."

Ky., Pineville—Howard Motor Co. incorporated by Berry P. Howard, Noah Howard and others.

La., Cedar Grove—Cedar Grove Motor Co., capital \$25,000, incorporated with B. A. Bass, Pres.; C. G. Owens, V. P.

La., New Orleans—Garage—L. J. Woodworth, 337 Baronne St., has contract at \$9500 for 62x75-ft. garage building, brick walls, steel, galvanized iron roof, concrete floors; Moritz & Maroney, Archts. and Engrs., 295 Ostrand Bldg.\*

Md., Frederick—Daniel E. Leatherman has plans by Kepner & Westenhaver, for \$10,000 service station on S. Market St., all iron structural work, stucco and brick; will install about \$6000 shop equipment, capacity 100 automobiles, has 40x200-ft. site.

Mo., Cape Girardeau—James A. Arnold contemplates building filling station corner W. Broadway and Hanederson Ave.

Mo., Cape Girardeau—Garage—W. T. and W. W. Bone has acquired building at 631 Themis St., will remodel for garage and auto repair shop.

Mo., Cape Girardeau—Garage—W. H. Bohnsack, Jr. and associates, plans building garage on Spanish St., tile and stucco; capacity 10 cars; purchased site.

Mo., Springfield—Waite Phillips Oil Co. will erect filling station at Boonville Ave. and Division St.

N. C., Kinston—Knight-Overland Co., capital \$25,000, incorporated by Courtney Mitchell, R. J. Dawson and others.

N. C., Plymouth—Plymouth Filling Station, Inc., capital \$10,000, chartered by F. H. Gregory and N. L. Stodman, both Halifax; J. J. Wade, Rosemary.

Okla., Oklahoma City—Garage—Bales & Crissman will erect \$8000 frame garage building at 114 S. Walker Ave.

Okla., Oklahoma City—Accessories—Central Manufacturing Co., L. J. Milburn, Sec., 712 Braniff Bldg., has building at 504 S. Robinson St., will manufacture Harper's oil tester for Ford cars, daily output approximately 1000.

S. C., Charleston—The U-Drive-It Co., incorporated with C. D. Barnard, Pres.; J. M. Alexander, Sec.

Tenn., Chattanooga—Standard Oil Co. of Louisiana, 1212 E. Main St., will erect filling stations at following sites: Eight and Pine St., Rossville Ave. near Read Ave., and two on Frazier Ave., North Chattanooga.

Tex., Fort Worth—Prescott Storage Co., Inc., 465 S. Calhoun St., capital \$15,000, chartered by G. W. Prescott, G. N. Prescott and others.

Tex., Moulton—Moulton Motor Co., capital \$15,000, incorporated by J. T. Bowman, E. P. Craven and others.

Tex., Port Arthur—Franklin Auto Supply Co., capital \$50,000, incorporated by A. J. Peletier, J. G. Domingue and others.

Tex., San Antonio—E. Dubinski, 601 W. Cypress St., received low bid from Moeller & Wellbacher at \$45,983 for garage building

on Houston St., 2-story reinforced concrete and brick; Henry T. Phelps, Archt., Hicks Bldg.

Tex., Waco—Automobile Accessories—E. H. Perry will erect \$40,000 building on Washington St., 1-story and basement, 80x150 ft.; to be occupied by McCauley-Ward Co.; H. L. Spicer, Archt., 814 Amicable Bldg., Waco.

W. Va., Beckley—Hudson-Essex Co., capital \$25,000, incorporated by W. C. Agee, C. R. Farnsworth, French Lucas.

W. Va., Huntington—Garage—Max Blederman, 233 Fourth Ave., will erect \$40,000 garage at Fourth Ave. and Third St.

### Railways

Ky., Whitesburg—Contract is reported let to Hart & Cooper, of Whitesburg, to build a branch railroad from Roxana to coal and timber lands on the headwaters of Kings Creek for the Bellepoint Lumber Co., of Bellepoint, Ky.

N. C., Tipton—H. C. Bemis, of Bradford, Pa., will, according to a local announcement, build a railroad from Tipton to Robbinsville, N. C., 11 mi. to be used as a common carrier as well as logging road.

Tex., Dallas—Dallas Southwestern Traction Co., has applied to the County Commissioners for a franchise to build an interurban electric railway from Dallas to Eagle Ford, Tex., about 6 mi.; E. P. Turner and associates are interested.

W. Va., Palmer—West Virginia Midland Railway Co. has applied to the Interstate Commerce Commission for authority to build an extension from Webster Springs to the mouth of Leatherwood Creek, 11 mi. O. W. Marsh, Palmer, W. Va., is general superintendent.

### Railways Shops, Terminals, Roundhouses, Etc.

Fla., West Palm Beach—Details under Miscellaneous Construction.

Ga., Atlanta—Fruit Growers Express Co., Walton Bldg., reported to erect \$450,000 plant, with W. T. Distell, Mgr.

Fred T. Newell, Industrial Sec., Atlanta Chamber of Commerce, wires: "Fruit Growers Express Co., Munsey Bldg., home office, Washington D. C.; H. B. Spencer, Pres.; E. J. Roth, Gen. Mgr.; work commenced and six buildings being erected, largest 200x75-ft., site area 21 acres, equipped for minor, medium and general repairs and rebuilding car shops, will contain machine shop, wood mill, air brake shop, sheet metal shop, and axle shop; capacity 175 cars; cost of plant and equipment \$450,000; will employ 350 skilled workmen; begin operation January, 1925, full capacity Feb. 1, 1925."

Tenn., Nashville—The Nashville, Chattanooga & St. Louis Ry. Co., H. McDonald, Chf. Engr., will probably rebuild roundhouse and tool house at Hollow Rock Junction, burned at loss of \$20,000.

Hunter McDonald, Chief Engr., advises: "No decision has been reached regarding the reconstruction of roundhouse at Hollow Rock Junction which recently burned; whatever plan is pursued it is most likely that the work will be done by our own forces."

Tex., Gainesville—Santa Fe System, C. F. W. Felt, Chf. Engr., Chicago, Ill., reported contemplating expending \$200,000 on improvements, double roundhouse and shop equipment, build additional tracks, etc.

Tex., Waco—Southern Pacific Lines, W. R. Scott, Pres., Houston, Tex., will erect steel water tank on 30-ft. base with concrete foundations, capacity 65,000 gals. replacing old wooden structure; other tanks are being built at Hearne and Mansfield.

### Road and Street Construction

Ala., Brewton—Escambia County Commrs., plan improving 3 roads: Forest Highway from Covington County line, to and through Brewton, to terminus of State Aid Project No. 2; Forest Highway from Sardis to Baldwin County line; road from Brewton to Conecuh County line toward Evergreen.

Ala., Fairfield—Details under Land Development.

Ala., Florence—Details under Land Development.

Ala., Hamilton — State Highway Comm., Montgomery, plans building 14 mi. Bankhead Highway in Marion county, between Hamilton and Guin.

Ala., Jasper—City let contract to Howard N. Bowdry, Birmingham, to pave with asphalt Fifteenth St. and Ninth Ave.

Ala., Mobile—City Comm., plans laying sidewalks along John Craft Highway from Catherine St. to city limits; also plans paving Monterey Place; Harry T. Hartwell, Mayor.

Ala., Montgomery—City plans expending \$55,000 to \$60,000, to improve Highland Ave., including bridge and roadway paving; J. M. Garrett, City Engr.

Ala., Montgomery—Eastern Star in Alabama, Mrs. A. L. Dillard, Grand Matron, Auburn, let contract to Capt. Stuart E. Washburn at \$13,000 to lay concrete driveways at Masonic Home, on Carter Hill road.

Ala., Opelika—Chamber of Commerce interested in paving Opelika-Auburn Highway; G. N. Mitcham, Engr.

Ala., Selma—City will receive bids soon to re-surface Dallas and Lauderdale Sts. with asphalt, bitulithic or tarvia; D. L. Porter, Chmn., Streets and Lights Committee; H. H. Stewart, City Clk.

Ark., Fayetteville—City plans 5 additional blocks of asphalt paving in West Mountain Street Improvement Dist. Address City Clk.

Ark., Melbourne—State Highway Comm., Little Rock, contemplates building road to connect western section of Izard County with Stone County Highway at Sylamore.

Ark., Newport — Jackson County plans building 3 roads: From Coffeyville to Newport, west of Missouri Pacific R. R. from Coffeyville; 18 mi. from Jackson-Woodruff County line, below Tupelo to Augusta; from Crow Crossing of Missouri Pacific R. R. south of Tuckerman to Lawrence County line, through Swifton. Address County Commrs.

Ark., Springdale—Clinton Pinckney, 1101 S. 25th St., Fort Smith, was awarded contract at about \$35,000 for 12 blocks of concrete paving in District No. 4.

Fla., Arcadia—Details under Land Development.

Fla., Boynton—Town plans opening, widening or paving streets and sidewalks; will sell \$15,000 bonds; J. C. Powell, Clk.

Fla., Bradenton—Manatee County Commrs. plan building 3 roads: 37½ mi. to Arcadia, connecting at Griffin St., Manatee, with De Soto County line, \$547,104.80; 23 mi. east from Parrish, to connect with Hardee and Polk County line, including spur to Albritton School, both projects to cost \$552,870; will vote Jan. 14 on bonds; F. K. Webb, County Engr.

Fla., Clearwater—Pinellas County plans building 4 roads. Details under Bridges, Culverts, Viaducts.

Fla., Clearwater—Pinellas County Commrs., plan improving 3 roads, totaling about 15 mi. in Special Road and Bridge Dist., No. 11, between St. Petersburg and Pinellas Park; No. 1, 6½ mi. Johns Pass, from Thirtieth

Ave. to intersection of Seminole or Jungle road; No. 2, Diston Ave. from city limits to Clearview Ave.; No. 3, Clearview Ave. west to Jungle or Seminole road; will vote Jan. 3 on \$625,000 bonds.

Fla., Cocoa—Details under Land Development.

Fla., DeLand—Details under Land Development.

Fla., Jacksonville—Details under Land Development.

Fla., Lakeland—City Comm., plans expending about \$500,000 for additional street paving.

Fla., Lake Worth—Town will receive bids Jan. 5 to pave streets and alleys, lay curbs and gutters, 9-in. Opus rock rolled to 7-in. and surfaced with Kentucky rock asphalt; John L. Bosley, Town Clk.\*

Fla., Maitland—Town plans street paving; voted \$35,000 bonds. Address Town Clk.

Fla., Miami—Details under Land Development.

Fla., Miami—City plans widening streets; will vote on \$100,000 bonds; F. H. Wharton, City Mgr.\*

Fla., Ocala—Details under Land Development.

Fla., Orlando—City contemplates opening Garland St. from Robinson Ave. to Amelia St. Address City Engr. Matthews.

Fla., Orlando—Details under Land Development.

Fla., Orlando — Orange County Commrs. plan improving Fairvilla road from Country Club road to city limits and for 1½ mi. beyond.

Fla., Palatka—City will receive bids Jan. 3 to furnish materials, equipment and labor for 50,000 sq. yd. street paving, with necessary drainage, curb, and gutter; plans, etc. from Chowning Cauthorn, Clk.

Fla., Pensacola—Escambia County Commrs. plan additional 3 mi. paving on Pensacola-Escambia Highway.

Fla., Punta Gorda—City let contract to James G. Yeats Co., Citrus Exchange Bldg., Tampa, Fla., at about \$110,000 to pave streets with vertical fibre brick, asphalt filler.\*

Fla., St. Augustine—Details under Land Development.

Fla., St. Petersburg—John Bateman, 542 Central Ave., let contract to N. H. Lihou for 2 mi. hard surfaced road through Waverly Place, Longvue and Verona subdivisions.

Fla., St. Petersburg—Details under Land Development.

Fla., Sarasota—Details under Land Development.

Fla., Sarasota—Sarasota County Commrs., will receive bids Dec. 27 to furnish materials and equipment to improve or build 7 roads, totaling 31.5 mi.; also steel draw span and approaches, and 30-ft. span concrete bridge; plans, etc., from Chas. G. Genson, County Engr.; M. L. Townsend, Chmn.

Fla., Stuart—City plans widening, extending and paving streets, and laying curbs and gutters on additional principal thoroughfares; voted \$50,000 bonds. Address City Clk.\*

Fla., Tampa — Hillsborough County, Palm River Section, plans building 5 mi. road from Hillsborough Bay, near mouth of Palm River, to Limona road, crossing Bayshore and Riverview roads; plans creating bond district, including 1 mi. between boundaries of east and northeast Tampa districts; contemplate \$160,000 bond issue; J. A. Mortland, Const. Engr. for district.

Fla., Tampa—Details under Land development.

Fla., West Palm Beach—Details under Miscellaneous Construction.

Fla., West Palm Beach—Palm Beach County Commrs., Fred E. Fenno, Clk., will receive bids Dec. 23 to furnish material, labor, equipment, etc., for 3 roads: Widen, improve, extend toward ocean and straighten Ocean Blvd., at Delray Beach, and intersection of Atlantic Ave.; build ¾ mi. paving known as Delray Cutoff, Delray; hard-surface 2.1 mi. Jupiter-Indiantown road; plans, etc., on file, and from Geo. O. Butler, County Engr.

Fla., West Palm Beach — Palm County Commrs. plan building and improving 7 roads, in Special Road and Bridge Dist. No. 11: 69.4 mi. Belle Glade to Hentry County line, \$393,000; 10 mi. Belle Glade to Pahokee, \$232,000; Chosen to Pelican Bay, \$121,800; Chosen to Pahokee, \$98,860; Canal Point to Bacom's Point, \$149,000; road south, west and north from Belle Glade, through Okeelanta and Gardenia to lake shore near Hendry County line, \$319,000; repairing and oiling Belle Glade-Chosen road, \$13,000; building lesser roads, improving military trail and roads west of Delray, and other thoroughfares; also plans expending \$70,000 for bridges; will vote Jan. 15 on bonds.

Fla., West Palm Beach—Palm Beach County Commrs. will receive bids soon to extend highway south from city limits of Delray to Florida East Coast R. R. right-of-way.

Georgia—State Highway Dept., East Point, Ga., let contracts for 4 roads: Jones County, 10.456 mi. topsoil, from Gray to Macon, J. R. and J. B. Miller, Baconton, \$77,901; Gordon County, concrete and steel bridge and approaches over Oostanula River on Calhoun-Dalton road, J. R. and J. B. Miller, \$62,929, and Virginia Bridge & Iron Co., Madison Ave., N. E., Roanoke, Va., \$12,320; Wayne County, 7.298 mi. sandclay Baxter-Jessup road, Bryson Paving Co., Jacksonville, Fla., \$54,281, and at \$6070 for timber bridge; Lowndes County, two bridges and culverts on Valdosta-Quitman road, Bryson Paving Co., \$33,274; Taylor County, 4.442 mi. sand-clay Butler-Thomaston, Scott-Chambers Co., West Point, \$24,329; Bartow County, 1.623 mi. penetration macadam Cartersville-Calhoun, S. E. Finley, 212 W. North Ave., Atlanta, \$36,160.\*

Ga., Atlanta—City plans widening Luckie St. between Bartow St. and North Ave., and connect Hemphill Ave. with new road being built by County from city limits to Jones' Ferry; C. E. Kaufman, preparing plans.

Ga., Augusta—Richmond County Commrs. plan connecting upper and lower highway routes through Beech Island section; Haskell Shuler, Engr.; Andrew Yaun, County Commr.

Ga., Columbus—Muscooke County Commrs., will receive bids probably in Jan. for 4 mi. Columbus-Cusset highway.

Ga., Cusseta—Chattahoochee County Commissioners, will receive bids probably in Jan. for 12 mi. Cusseta-Columbus Highway; Oliver C. Stephens, Chmn.

Ky., Carrollton—City will receive bids December 22 to improve 4 streets; plans, etc., from J. E. Gullion, Mayor, and A. A. Krieger, City Engr., Louisville.

Ky., Catlettsburg — City plans improving Mitchell St. in North Highlands Addition; W. H. Justice, Chmn. Street Committee.

Ky., Somerset—City plans street and sewer improvement; voted \$135,000 bonds; C. B. Cundiff, City Clk.\*

Ky., Whitesburg—Letcher County Fiscal Court, plans completing 6 mi. Mayking-Hammond section of Kentucky-Virginia Highway; contemplates bond election.



Louisiana — Louisiana Highway Comn., Reymond Bldg., Baton Rouge, let contracts for 2 roads: West Carroll Parish, 5.24 mi. gravel Oak Grove-Arkansas Highway from Terry to Arkansas State line, McKeithen Construction Co., Grayson, La.; Claiborne Parish, 8 mi. gravel Homer-Farmerville Highway, L. M. Wimberly Construction Co., Arcadia, La., \$53,341, low bidder.\*

Louisiana—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids Jan. 13 for 3 graveled highways: Morehouse Parish, 7.43 mi. Bastrop-Arkansas State Line Highway, from Bastrop to Mer Rouge; Vernon Parish, 16.13 mi. Leesville-Natchitoches Highway, from Leesville to Natchitoches Parish line; Winn Parish, 6.4 mi. Winnfield-Olla Highway, from Winnfield towards Olla; plans, etc., on file; Wm. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)

La., Baton Rouge—East Baton Rouge Parish, Fifth Ward, Joe W. Tucker, Police Juror, plans graveled 50 mi. roads; contemplates voting on \$40,000 bonds.

La., Farmerville — Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids December 22 for 8.93 mi. Farmerville-Ruston road, from Farmerville to Lincoln Parish line; W. M. Robert, State Highway Engr.

La., Lake Charles—Calcasieu Parish Police Jury let contract to Fred G. Lock, Lake Charles, for 3 mi. graveled road from DeQuincy to Calcasieu-Beauregard line.\*

La., Monroe — Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids Jan. 13 to pave 3.508 mi. 18-ft. wide gravel Monroe-Sicard road, from Monroe towards Sicard, with 3-ft. gravel shoulders on each side; plans, etc., on file; Wm. B. Robert, State Highway Engr. See Machinery Wanted—Gravel.

La., Port Allen—Details under Land Development.

La., Rayville—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids Dec. 30 for 2 sections of roads in Richland Parish: 3.71 mi. gravel surface on Archibald-Monroe Highway; build 609 ft. embankment and surface with gravel Monroe-Winnsboro Highway; contractor to furnish gravel; also build 1297 lin. ft. timber bridges and culverts; plans, etc., on file; Wm. B. Robert, State Highway Engr.

La., Ruston — Lone Star Highway Assn., Henry E. Hardtner, Pres., plans building Pershing Highway from Ruston to El Dorado and Camden.

La., St. Bernard—St. Bernard Parish Police Jury plans building Reggio-De La Croix Island road; will sell bonds.

La., Shreveport—City let contract to E. J. Deas Co., Bell St., to pave Regent and Exposition Sts., and to M. Hyman for concrete sidewalks. Address City Clk.

Md., Baltimore—City, Dept. of Public Improvement, plans opening 2 streets: Post road from Bucks Lane to Montgomery Ave.; Chesterfield Ave. along Herring Run between Harford and Belair roads; also plans opening and widening Annapolis road from Graveyard lane to Maryland Ave., new city boundary at English Consul; Jos. W. Shirley, Chmn. City Plan Comn.; Howard W. Jackson, Mayor.

Md., Baltimore—Dept. of Public Improvement, plans extending Chesapeake Ave. through Brooklyn to Hanover causeway, south of railroad; Joseph W. Shirley, Chmn., City Plan Comn.; Howard W. Jackson, Mayor.

Md., Baltimore—City plans opening, widening and grading Walther Ave., from Harford Road to Franklin Ave.; Howard W. Jackson, Mayor.

Md., Baltimore—City, plans improving 11 streets and avenues, including Third St., Evergreen, Haddon, Glenmore Aves.; Edward J. Hecker, City Surveyor; Howard W. Jackson, Mayor; Stuart Purcell, Ch. Engr.

Miss., Hattiesburg—Hattiesburg Chamber of Commerce, George County Development Assn., Lucedale, and Mobile Chamber of Commerce plan improving highways connecting Hattiesburg with Mobile.

Miss., Macon—Noxubee County will receive bids Jan. 5 to improve 3 roads in Dist. No. 4: 3 mi. Calyx; 7 mi. Cooksville and Shuqualak; 16 mi. Shuqualak and Gholson from Shuqualak to Winston County line; John A. Tyson, Clk. Board of Supvrs.

Miss., Pascagoula—Jackson County, Dist. No. 4, plans completing Old Spanish Trail between Ocean Springs and Gautier; voted \$40,000 bonds. Address County Commrs.\*

Missouri—State Highway Dept., Jefferson City, will receive bids December 19 for 25 roads:

In Dent County, 2 sections; 3.668 mi. 30-ft. graded earth from Salem south, 29,414 cu. yd. earth and rock excavation; 3.642 mi. 30-ft. graded earth from Salem south, 23,993 cu. yd. earth and rock excavation; St. Francois County, 1.163 mi. 16-ft. gravel from Bismarck to Elvins, 11,007 sq. yds. gravel surfacing; Grundy County, 2 sections; 1.875 mi. 30-ft. graded earth from Spickard south, 27,123 cu. yd. earth excavation; 2.423 mi. 18-ft. rock asphalt or asphaltic concrete surfacing, from Edinburg west, 9,192 cu. yd. excavation, 25,688 sq. yd. surfacing; Harrison County, 4.962 mi. 9-ft. concrete surfacing, from Bethany north, 25,948 sq. yd. surfacing; Camden County, 2.321 mi. 12-ft. gravel surfacing from Linn Creek to Macks, 16,448 sq. yd. surfacing.

In Clinton County, 2 sections; 3.975 mi. 18-ft. rock asphalt or asphaltic concrete surfacing, from Grayson to Trimble, 17,864 cu. yd. earth excavation, 40,255 sq. yd. surfacing; 1.715 mi. 18-ft. rock asphalt or asphaltic concrete surfacing from Grayson to Gower, 4,265 cu. yd. earth, 18,114 sq. yd. surfacing; Texas County, 2 sections; 4.178 mi. 30-ft. graded earth, from Licking north and south, 47,372 cu. yd. earth and rock excavation; 4.205 mi. 30-ft. graded earth from Licking south, 33,085 cu. yd. earth and rock excavation; Montgomery County, 2 sections; 2.92 mi. 16-ft. gravel surfacing from Montgomery City north and south, 21,660 sq. yd. surfacing; 2.92 mi. 16-ft. gravel surface from Wells-ville to Montgomery, 21,660 sq. yd. surfacing; Adair County, 4.824 mi. 18-ft. gravel, from Kirksville north, 34,442 cu. yd. earth excavation, 50,941 sq. yd. surfacing.

In Cole County, 3 sections; 2.838 mi. 12-ft. gravel surfacing from Bagnell south, 20,086 sq. yd. gravel pavement; 1.752 mi. 12-ft. gravel surfacing from Jefferson City to Eldon, 12,403 sq. yd. surfacing; 4.999 mi. 12-ft. gravel surfacing from Jefferson City to Eldon, 35,313 sq. yd. pavement; Platte County, 3 sections; 1.232 mi. 30-ft. graded earth from New Market north, 14,400 cu. yd. earth excavation, 4,678 mi. 30-ft. graded earth from Tracy to New Market, 56,684 cu. yd. earth and rock excavation; 4.73 mi. 30-ft. graded earth from Tracy to New Market, 95,503 cu. yd. earth and rock excavation; Douglas County, 3.875 mi. 30-ft. graded earth from Ava west, 55,000 cu. yd. earth and rock excavation.

In Lawrence County, 4.116 mi. 16-ft. chas road from Aurora east and west, 33,660 cu. yd. earth and rock excavation, 38,634 sq. yd. chas surfacing; Marion County, 4.374 mi. 18-ft. concrete from Hannibal to Ely, 8,726 cu. yd. earth excavation, 46,068 sq. yd. surfacing; Ralls County, 2 sections from Mon-

roe to Ely; 2.911 mi. 18-ft. concrete, 30,629 cu. yd. earth excavation, 30,742 sq. yd. surfacing; 2.885 mi. 18-ft. concrete, 12,490 cu. yd. earth excavation, 30,144 sq. yd. surfacing; also bridge over Beaver Creek in Douglas County, two 40-ft. deck girders; two in Texas County; over Licking Creek, three 12-ft. slabs; over Dry Run, two 10 ft. x 6.75 ft. boxes; B. H. Piepmeyer, Ch. Engr.

Mo., Nevada—City plans receiving bids soon for 12 blocks of paving, including all sides of public square. Address City Clk.

Mo., Centralia—City let contract to Fry Brothers Construction Co., Iola, Kan., at \$41,300 for 13 blocks of paving.\*

Mo., Liberty—Details under Land Development.

Mo., Neosho—Joplin Special Road Dist. Commr., John M. Malang, Supt., plans building 4 mi. gravel road south from Crawford Corner, Newton County.

Mo., St. Joseph—City received low bids from Edward Myers and William Swope to grade several streets, including Valley St. Address City Clk.

Mo., St. Louis—Board of Public Service will receive bids Dec. 23 to improve 10 streets.

N. C., Ahoskie—Board of Commrs. let contract to Atlantic Bitulithic Co., Washington, N. C., at \$53,539, to pave Main St. with concrete and asphalt combination.\*

N. C., Elizabeth City—Pasquotank County Highway Comn., plans paving about 20 mi. 9-ft. road; contemplates bond issues.

N. C., Goldsboro—City plans expending \$27,000 for street paving, and \$14,000 for sidewalks; contemplates bond issue. Address Mayor Bain.

N. C., Wilson—City Comn. plans street improvement; will issue \$110,000 bonds; plans sidewalks; will issue \$65,000 bonds.

Okla., El Reno—City Commrs. contemplate paving 4 blocks on S. Rock Island Ave. and Hadden Ave. with asphalt.

Okla., Oklahoma City—City Commrs. let contracts at \$26,479 to Tibbets & Pleasant, to pave Thirteenth, Fifteenth and Sixteenth Sts.

S. C., Bennettsville — Marlboro County Commrs., let contract to Hendricks & Kennedy, Charlotte, N. C., at \$27,144 for 6.087 mi. sand clay surfaced road, between Clio, and point 11 mi. from Dillon.\*

S. C., Georgetown—City plans street paving. Address City Clk.

S. C., Newberry—City plans street paving; voted \$150,000 bonds. Address City Clk.\*

S. C., Newberry—Newberry County will receive bids December 23 for 3.18 mi. State Route No. 7 from point in Town of Whitmire to Laurens County line, 26,653 cu. yd. rock and common excavation, 9,957 cu. yd. top-soil surfacing; plans, etc., from E. D. Sloan, Div. Engr., Greenville, and State Highway Engr., Columbia.

S. C., Sumter—Sumter County Permanent Road Comn., will receive bids soon for about 4 mi. Sumter-Columbia highway from end of paving on Stateburg road to Southern Ky. crossing at Dixie.

Tenn., Brownsville — Board of Aldermen will receive bids December 23 for 40,000 sq. yd. surface oil, 5000 tons gravel furnished, hauled and spread, and 2 timber bridges; plans, etc., from City Recorder, and J. H. Weatherford, Engr., 64 Porter Bldg., Memphis; Dr. J. L. Edwards, Mayor.

Tenn., Jasper—Dept. of Highways and Public Works, Nashville, will build State Highway between Whitwell and Sequatchie; also reinforced concrete bridge over Little Sequatchie River.

Tenn., Kingsport—City let contract to Dickson Construction Co. to grade and pave Center St. to new Bristol Highway. Address City Clk.

Tex., Austin—Travis County plans bituminous macadam surfacing 5.7 mi. State Highway No. 2, Round Rock road, from point 6 mi. north of Austin to Williamson County line, estimated cost \$116,000; O. Leonard, County Engr.; Geo. D. Mathews, County Judge.

Tex., Austin—Travis County plans bituminous macadam surfacing State Highway No. 20, Austin-Houston road, extending 2 mi. through Mano, approximate cost \$278,000; Leonard County Engr.; Geo. S. Mathews, County Judge.

Tex., Austin—Travis County plans improving 2 roads: Grade and construct bridges on 14.6 mi. State Highway No. 29, from Peytons Gin on Upper Georgetown road, to Williamson county line, through Jollyville, 1 mi. to be surfaced with crushed rock, estimated cost \$24,940; crushed rock surface 7.92 mi. State Highway No. 20-A, Fredericksburg road, from near Oak Hill to Hays County line, estimated \$32,350; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Barstow—U. S. Dist. Engr., Fort Worth, approved plans for 4.61 mi. 16-ft. gravel on State Highway No. 1, Ward County, east from Reeves county line, estimated cost \$88,250; R. E. Boker, Res. Engr.; E. W. Surratt, County Judge.

Tex., Beaumont—City plans street improvement; will vote soon on \$150,000 bonds; Ollie J. Bloyd, City Mgr.

Tex., Bonham—Fannin County will receive bids Dec. 22, to grade and construct drainage structures and lay 18-ft. concrete pavement on 1 mi. State Highway No. 5, from point west of Dodd City, to point east of Bonham; plans, etc., from Pinckney B. Price, County Engr., and State Highway Dept., Austin; Sam E. Neilson, County Judge.\*

Tex., Boston—Bowie County plans 8.4 mi. State Highway No. 47, Texarkana-Atlantic road from Texarkana south to Cass County line, at McCartneys Bridge, also 3 bridges over 20-ft. spans, estimated cost \$315,000; D. K. Caldwell, County Engr., Cosmopolitan Hotel; J. B. Pirkey, County Judge.

Tex., Boston—Bowie County will receive bids in Jan. for 2 sections of roads: 10.71 mi. 18-ft. concrete pavement, and .93 mi. 20-ft. concrete pavement on State Highway No. 5, from Texarkana to west side of Precinct No. 1 line, estimated cost \$394,000; D. K. Caldwell, County Engr.; Texarkana.

Tex., Boston—Bowie County plans building 2 roads: 7.31 mi. 18-ft. concrete on State Highway No. 47, Index road, from Texarkana to Arkansas State line leading to Index Bridge across Red River, also three bridges over 20-span, estimated cost, \$238,500; 3.2 mi. concrete surfaced, and 3.2 mi. gravel surfaced on State Highway No. 1, from Texarkana to west line of Precinct No. 1, cost \$196,000; D. K. Caldwell, Engr., Texarkana; J. B. Pirkey, County Judge.

Tex., Brownsville—Cameron County plans grading and constructing bridge on 24.5 mi. State Highway No. 100, from Baneda to Point Isabel, estimated cost \$61,050; W. O. Washington, County Engr.; Oscar C. Dancy, County Judge.

Tex., Cameron—City plans additional street paving; will vote in Jan. on \$125,000 bonds; Judd G. Davis, Mayor. Lately noted to vote Dec. 22.

Tex., Carthage—Panola County will receive bids Dec. 9 to grade and construct drainage structures on State Highway No. 64, 169,422

cu. yd. earth roadway and borrow excavation, 10,347 lbs. reinforcing steel; plans, etc., from Titus & Dillon, County Engr.; and State Highway Dept., Austin; A. D. Nelson, County Judge.

Tex., Carrizo Springs—Dimmitt County will receive bids Jan. 6 for 25 mi. road from Carrizo Springs to Maverick County line; Maj. W. I. Hulson, State Highway Engr., San Antonio Div.

Tex., Center—Shelby County will receive bids soon to gravel surface 5.02 mi. State Highway No. 35, from Timpson to Bobo, estimated cost \$84,400; Titus & Dillon, County Engr.; D. R. Taylor, County Judge.

Tex., Dalhart—City plans laying about 7 mi. additional sidewalks. Address City Clk.

Tex., Dallas—City Plan Comn. contemplates widening Akard St. from Commerce to Jackson; Maj. E. A. Wood, City Plan Engr.

Tex., Dallas—John W. Everman, Supvr. Public Utilities, plans opening and widening N. Pearl St.

Tex., Eagle Pass—Maverick County Commissioners, plan building 25 mi. road to Dimmitt County line, and extending to Eagle Pass.

Tex., El Paso—El Paso County Commrs. let contract to Orr & Wright at \$140,028 for 7.35 mi. Kern Place road, State Highway No. 1, from El Paso to White Spur.\*

Tex., Fairfield—Freestone County will receive bids soon to grade and construct bridges on 6.59 mi. State Highway No. 7 from Fairfield to Turlington, estimated cost \$26,000; J. E. Johnston, County Engr.; J. F. Roper, County Judge.

Tex., Floresville—Wilson County let contract to Smith Bros., American Exchange Bank Bldg., Dallas, to build Corpus Christi-San Antonio road through Floresville precinct.\*

Tex., Fort Worth—City and Travis County plan building 1 mi. hard surfaced road on North Side from Twenty-fifth St. north; cost \$25,000; Chester Jones, Finance Commr.

Tex., Greenville—Hunt County let contract to J. A. Block & Co., W. Eighth St., Fort Worth, at \$73,055 for 13 mi. waterbound macadam with asphalt topping on city road, from point north of Greenville to Fannin County line, through Wolf City.\*

Tex., Houston—Harris County Commrs. plan 2 sections of concrete road on Galveston road: 1½ mi. between Webster and Clear Creek, and 3½ mi. from Harrodsburg to South Houston; cost \$400,000, County, State and Federal Governments each to pay one-third.

Tex., Houston—Details under Land Development.

Tex., Houston—City let contract to Gulf Bitulithic Co., 701 Foster Bldg., Houston, at \$56,050 to pave Blodgett Ave. with 2-in. Warrentite bitulithic; to Smith Bros., American National Bank Bldg., Dallas, at \$42,863 to pave Helner and Sabine Sts., with 2-in. asphaltic concrete.\*

Tex., Houston—City plans paving roadway down both sides of waterway, will vote in April on \$150,000 bonds for each road; also will vote on bonds for paving and sanitary and storm sewers; O. F. Holcombe, Mayor.

Tex., Huntsville—Walker County Commrs., let contract to S. F. Vann, Trinity, at \$12,000 to grade 12 mi. road; D. K. Caldwell, County Engr.\*

Tex., Kaufman—Kaufman County will receive bids soon for 3 sections of roads: 3.91 mi. 18-ft. concrete pavement on State Highway No. 15 from Terrell east, approximate cost \$104,000; 6.62 mi. 18-ft. concrete pave-

ment on State Highway No. 15 from Van Zandt County line west, approximate cost \$175,000; 0.75 mi. 18-ft. concrete surfacing, State Highway No. 15, from Terrell west to Talty-Porney road, estimated cost \$260,000; S. J. Treadwell, County Engr., Terrell; W. P. Williams, County Judge, Kaufman.

Tex., Linden—Cass County plans improving 2 roads: Gravel surfacing 18-mi. State Highway No. 47, from Johns Creek towards Sulphur Springs, via Linden, estimated cost \$24,000; 3.09 mi. State Highway No. 1, from Sulphur River to Morris County line, between Bowie and Cass Counties; F. E. Hess, County Engr., Dallas and Linden; S. L. Henderson, County Judge.

Tex., Madisonville—Madison County plans road building in Road Dist. No. 3; voted \$75,000 bonds; T. Ferguson, County Judge.

Tex., Marshall—City let contract to Cocke & Turner, Marshall, at \$103,239, to pave with 3-in. brick on 4-in. concrete base, ten streets or sections of streets.\*

Tex., Pearsall—Frio County received low bid from W. W. Vann, Falfurrias, at \$135,032 to grade and gravel surface 14.8 mi. State Highway No. 8, Dilley-Eagle Pass Highway, from Dilley west to Dimmitt County line; from P. G. Burns, San Bernado, at \$24,833 for bridges.\*

Tex., Quanah—Hardeman County plans paving Colorado-to-Gulf Highway through County; contemplates \$600,000 bond issue. Address County Commrs.

Tex., San Antonio—City plans paving Salinas St. from Main Ave. to N. Flores St.; Paul Steffler, Commr. of Streets; I. Ewig, City Engr.

Tex., San Antonio—City will pave and curb 10 blocks Westfall Ave., cost \$90,000; John W. Tobin, Mayor; I. Ewig, City Engr.

Tex., Snyder—City plans street paving; voted \$50,000 bonds; Fritz R. Smith, Mayor.\*

Tex., Sulphur Springs—Hopkins County will receive bids soon to grade and construct bridges on 15.62 mi. State Highway No. 11, from Sulphur Springs to Hunt county line, through Brashear and Cumby, estimated cost \$77,000; J. B. Riegan, County Engr.; R. E. Bertram, County Judge.

Va., Covington—State Highway Dept., Richmond, received low bid from H. P. Baker, Richmond, at \$67,732 to grade, construct drainage structures and bridges and approaches on 2.33 mi. road between Crows, Allegheny County, and West Virginia line, and \$129,127 to grade, drain, and build bridges and approaches on 6.223 mi. same road.

Va., Portsmouth—City contemplates widening and paving Chestnut St. between Lincoln and Randolph; J. P. Jervey, City Mgr.

Va., Richmond—City plans expending \$775,000 for street improvement; R. Keith Compton, Director of Public Works.

W. Va., Welch—McDowell County Court plans completing South Fork road, cost \$20,000.

## Sewer Construction

Ala., Albany-Decatur—Cities of Albany and Decatur, will build jointly in the near future a storm sewer consisting of about 1300 ft. of 24-in. vitrified pipe, 287 ft. of 36-in. vitrified pipe, and tunnel the L. & N. roadbed for 112 ft. and lay 112 ft. of 36-in. concrete pipe; Independent Paving Co. and Mitchell Bros., both American Trust Bldg., Birmingham, Ala., Gen. Contrs.; Marlon S. Bingham, Engr.\*

Ala., Birmingham—City let contract to Long & Haggerty at \$13,492 for construction of sewer on East Thomas St.\*



Ala., Fairfield—Details under Land Development.

Fla., Arcadia—Details under Land Development.

Fla., Bonifay—Details under Water Works.

Fla., Cocoa—Details under Land Development.

Fla., Fort Pierce—City Mgr. will receive bids Jan. 8 for construction of extended storm and sanitary sewers.

Fla., Lake City — City, H. G. Forester, Mayor, will open bids December 22 for constructing sanitary sewers, sewage disposal plant, sewage lift plant and water mains; Robert & Co., Inc., Engrs., Tuft Bldg., Atlanta, Ga. (See Machinery Wanted—Sewerage and Water Works).

Fla., Lake Worth—Town will construct additional sewers. John L. Bosley, Clk.

Fla., Miami—Details under Land Development.

Fla., Miami—City, F. H. Wharton, Mgr., plans voting on \$100,000 sewer bonds.

Fla., Orlando—Details under Land Development.

Fla., Punta Gorda—Details under Water Works.

Fla., Sarasota—Details under Land Development.

Fla., Stuart—City voted \$25,000 bonds for sewers. Address City Clk.\*

Fla., West Palm Beach—Details under Land Development.

Ga., Macon—City let contract at \$32,257 to J. B. McCrary Engineering Corp., Citizens & Southern Bank Bldg., Atlanta, Ga., for laying sewers for Cherokee Heights outfall system and building disposal plant, also for laying sewers on Water St., East Macon.\*

Ky., Somerset—City voted \$135,000 sewer and paving bonds. Address City Clk.\*

La., Jonesville — Details under Electric Light and Power Plants.

Md., Baltimore — Details under Water Works.

Md., Baltimore—City let contract to Consolidated Engineering Co., Calvert Bldg., at \$45,086 for storm drain in Gwynn's Run, between Baltimore and Lexington Sts., and at \$29,788 for new screen house at Back River sewerage disposal work; to D. C. McAleer Construction Co., Phoenix Bldg., at \$31,991 for storm water drain in Glen Ave. and Clover Rd. section.\*

Md., Delmar, mail Delmar, Del.—City of Delmar voted to install sanitary and storm sewers; estimated cost \$150,000; Abel Wolman, Ch. Engr., Bureau of Sanitary Engineering, 16 W. Saratoga St., Baltimore.

Mo., Joplin—City let contract to H. Kost, 2002 Jackson St., at \$2.50 lin. ft. for construction of sewer in West Joplin sewer district No. 14.\*

Mo., Liberty—Details under Land Development.

Mo., St. Louis—Board of Public Service let contract to J. J. Dunegan for completion of first section of River Des Peres sewer.\*

N. C., Goldsboro — Details under Water Works.

N. C., Roseboro — Details under Water Works.

N. C., Wilson—Details under Water Works.

Okla., Oilton—City let contract to Kennedy Construction Co., Tulsa, for construction of sanitary outfall sewer.

Tex., Cameron—City will open bids Janu-

ary 6 for construction of sewage disposal plant; cost \$20,000; A. F. Mitchell, City Engr.

Tex., Houston—Details under Road and Street Construction.

Tex., Pelly, Branch Goose Creek—City will vote December 29 on \$50,000 sanitary sewer and disposal plant bonds; Black & Sloan, Engrs., Stewart Bldg., Houston, Tex.\*

Va., Westhampton, R. Sta. Richmond—Westhampton Improvement Corp. let contract to Cheatwood & Driscoll, Vawter Ave. and Highland St., Richmond, for construction of sewerage and drainage system for suburban residences; estimated cost \$38,000; Allen J. Saville, Engr. in charge, Va. Ry. & Power Bldg.

W. Va., Princeton—City Engr. will soon call for bids for pipe and laying of pipe for extension of sewer line; \$25,000 available.

### Shipbuilding Plants

Tex., Houston—Horton & Horton, McKinney and Velasco Sts., capital \$500,000, incorporated by Geo. Horton, R. F. Crawford and A. Thorstenburg; will soon begin construction of marine ways at Cotton Patch Bayou and ship channel, to be built in two units, one for handling vessels up to 1000 tons and smaller ways to accommodate smaller crafts; will dredge 1200 ft. channel from main ship channel to the site of new improvements; also build shell, gravel and sand loading and unloading wharves, all electrically operated.

### Telephone Systems

Ark., Pine Bluff—Southwestern Telephone Co., main office St. Louis, Mo. will expend approximately \$50,000 on improvements in cable facilities; A. A. Carett, Dist. Mgr.

Fla., Sarasota—Details under Land Development.

Fla., Tampa — Peninsular Telephone Co., Zack and Morgan Sts., W. G. Brorein, Pres., contemplates expending \$1,750,000 on expansions and improvements for the coming year; City will receive half the money voted for improvements, with the remainder will be apportioned to fifteen exchanges in adjoining counties.

Tenn., Chattanooga—Ware Radio Corp., 529 West 42d St., New York city, contemplates establishing radio broadcast station.

W. Va., Iaeger—Chesapeake & Potomac Telephone Co., main office 5 Light St., Baltimore, Md., has secured franchise and will install telephone system, giving a through line from Williamson to Iaeger.

### Textile Mills

N. C., Gastonia—Modena Cotton Mills, increased capital from \$250,000 to \$500,000.

N. C., Shelby—J. E. Serrine & Co., Engrs., 309 S. Main St., Greenville, S. C., receiving bids for construction of Ora Mills, 6000 spindle capacity; wire from J. E. Serrine & Co. states: "Ora Mills standard mill construction, 1 story, 138x335 ft.; warehouse 75x100 ft.; contracts for mill and equipment not awarded."

N. C., Shelby—Shelby Cotton Mills, let contract to Michael & Bivens, Inc., Electrical Engrs. and Contrs., Gastonia, for installing switchboards, reorganization and installing motors and modern lighting system throughout entire mill; approximate cost \$9000.\*

S. C., Abbeville—Chamber of Commerce reported interested in establishment of cotton plant; wire from Chamber of Commerce states: "\$1,500,000 cotton mill proposed; Seaboard Air Line Ry. and Lockwood, Greene

& Co., are working in conjunction with local Chamber of Commerce; Abbeville is to raise 12½ per cent of capital and a New England textile concern and contractors are to raise balance of stock; details not worked out yet."

Wire from Lockwood, Greene & Co., Piedmont Bldg., Charlotte, N. C. states: "Have no information on Abbeville Cotton Mill project."

S. C., Pageland—Pageland Cotton Mills let contract to Michael & Bivens, Inc., Electrical Engrs. and Contrs., Gastonia, N. C., for installing motors and complete lighting system.

S. C., Spartanburg—Star Hosiery Mills, Arch St., will install 100 additional knitting machines.

Tenn., Chattanooga—Smith Hosiery Mills, George Blackwell Smith, Pres., 1300 McCallie Ave., will construct \$300,000 unit; building will be 50x270 ft.; concrete; 3 stories; will treble capacity of plant.

Wire from company states "plans not fully developed."

Tenn., Chattanooga—Dixie Spinning Mills, Hixon Park, let contract to T. C. Thompson & Bros., 809 N. Smith St., Charlotte, N. C., at \$75,000 for construction of 3000 spindle addition adjoining present plant; 100x107 ft.; machinery contract let through firm of Howard & Phillips.\*

Tenn., Jacksonville — Du Pont Fibersilk Co., Buffalo, N. Y., reported to construct second unit at fibersilk plant at Old Hickory; plant will be a duplicate of first unit and is reported to cost about \$2,000,000. Wire from Dupont Fibersilk Co., states: "It is true that we are adding a second unit of same construction as first at Old Hickory, Tenn., giving total annual capacity there of 3,000,000 lbs.; Dupont Co., Wilmington, Del., are Engrs. and Contrs."

### Water Works

Ala., Fairfield—Details under Land Development.

Fla., Arcadia—Details under Land Development.

Fla., Bonifay—City will vote Jan. 6 on \$40,000 bonds for water works, sewer system and fire protection. Address The Mayor.

Fla., Cocoa—Details under Land Development.

Fla., Coconut Grove—City Council let the following contract for water works system: to Foos Gas Engine Co., Springfield, O., for oil engines and generator units; R. D. Cole Manufacturing Co., Newnam, Ga., for tank; Ozanne & Magruder, Coconut Grove, for pumps and motors; J. B. McCrary Co., Citizens & Southern Bank Bldg., Atlanta, Ga., for construction works; Main Engineering Co., Engineers, Daytona.\*

Fla., Jacksonville—Details under Land Development.

Fla., Lake City—City, H. G. Forester, Mayor, will open bids December 22 for constructing water works, etc.; Robert & Co., Engrs., Tuft Bldg., Atlanta, Ga. (See Machinery Wanted.)

Fla., Miami—City, F. H. Wharton, Mgr., plans voting on \$250,000 water bonds.

Fla., Miami—Details under Land Development.

Fla., Miami—Chicago Bridge & Iron Works, 3105 Transportation Bldg., Chicago, Ill., has contract for erecting wash water tower and chemical house at city's water softening plant at Hialeah; Dorr Clarifier Co., has contract for installing equipment for clarifying water, consisting of tank 58x58 ft. in area, 19 ft. high with capacity of 500,000 gals. water.\*

Fla., Orlando—Details under Land Development.

Fla., Punta Gorda—J. B. McCrary Engineering Corporation, Citizens & Southern Bank Bldg., Atlanta, Ga., engineers for city, state that construction work will start about the middle of December on sewer, street and waterworks improvements and will be complete about middle of summer; the following contracts have been awarded to I. C. Mishler, Daytona Beach, at approximately \$165,000 for waterworks, sanitary and storm sewer for street paving to James G. Yeats Co., Citrus Exchange Bldg., Tampa, at approximately \$110,000, for vertical fibre brick asphalt filler; to United States Cast Iron Pipe & Foundry Co., Burlington, N. J., at \$13,000 for pipe; for motors to Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.; for pumps to American Well Works, Aurora, Ill.; for fire pumps and sewerage pumps to Worthington Pump & Machinery Corporation, 115 Broadway, New York; gas engines to Sterling Engine Co., Buffalo, N. Y., at approximately \$7300; for hydrants to Rensselaer Valve Co., Troy, N. Y., at \$1588; for valves and boxes to Columbian Iron Works, 811 Boyce St., Chattanooga, Tenn., at \$1079.\*

Fla., St. Augustine—City votes February 10 on \$415,000 waterworks bonds. Address City Commrs.

Fla., St. Petersburg—City Comm. let contract to Southern Contracting Co. for drilling test well near municipal power plant.

Fla., West Palm Beach—Details under Land Development.

Fla., Sarasota—Details under Land Development.

La., Glenmora—City voted \$12,500 bonds for installation of waterworks. Address The Mayor.\*

La., Port Allen—Details under Land Development.

Md., Baltimore—Public Improvement Commission voted to expend \$63,000 for installation of sanitary sewers and storm water drains; Bernard L. Crozier, Highways Engr.

Mo., Lees Summit—City defeated \$64,000 sewer bonds and \$61,000 waterworks bonds; E. T. Archer & Co., 609 New England Bldg., Kansas City, Engrs.\*

Mo., Liberty—Details under Land Development.

N. C., Goldsboro—City authorized \$150,000 bonds for waterworks, sewers, cemetery, etc. Address The Mayor.

N. C., Highlands—Town has retained Warren H. Booker, 121 Crescent Ave., Charlotte, as engineer in connection with proposed public water supply; bids for construction work and materials including cast iron pipe, lead, valves and a 200,000 gal. steel tank, will be opened in January.

N. C., Roseboro—City, E. C. Robinson, Mayor, votes January 12 on \$85,000 bonds for construction of water and sewers; J. B. McCrary Co., Citizens & Southern Bank Bldg., Atlanta, Ga., Engrs.

N. C., Willson—City Comsn. will issue \$30,000 water extension bonds; \$60,000 electric light bonds; \$70,000 sewer extension; \$50,000 sewer disposal; \$38,000 bonds for white way system.\*

Okl., Oklahoma City—City Commrs. reported to contemplate construction of dam, costing \$1,000,000.

Okl., Wetumka—Details under Electric Light and Power Plants.

S. C., Spartanburg—City, R. B. Simms, Supt. Water Dept., will probably be ready

for bids in January for construction of \$1,350,000 water supply system; Paul H. Norcross, Engr., Candler Bldg., Atlanta, Ga.\*

Tenn., Chattanooga—City Water Co., 10th & Market Sts., let contract to Walsh & Weldner Boiler Co., Main and Sycamore Sts., for tank of 160,000 gals. capacity to augment water supply at Missionary Ridge.\*

Tenn., Jackson—City will construct 1,000,000 gal. water tower to supplement water supply. Address the Mayor.

Tex., Comanche—City, J. R. Eanes, Mayor, will vote January 6 on \$70,000 bonds for water works improvements.

Tex., Dallas—City Sec. will re-advertise for bids for clearing Lake Dallas basin in Denton county, all former bids were rejected.\*

Tex., Houston—Details under Land Development.

### Woodworking Plants

Ala., Talladega—Wiggonton Cooperage Co., capital \$10,000, incorporated by Earl Kean, C. W. Stringer, Jr., and others.

Ark., Shirley—Pope Wonder Ironing Board Co., A. C. Edwards, Pres., Marshall, Ark., will establish branch manufacturing plants at both Shirley and Harrison.

Ky., Louisville—Kentucky Lumber & Millwork Co., Sixth & A Sts., increased capital from \$10,000 to \$30,000.

La., Houma—Cross-Ties—A. W. Pettigrew, Inc., chartered with A. W. Pettigrew, Pres.; Harris Gagne, Sec.

Miss., Jackson—E. S. Evans & Co., Edwards Hotel Bldg., let contract to Hayden Construction Co., Millsaps Bldg., of Jackson, to erect one factory building and additions to three buildings; have taken over the entire interests of the American Box Co., Edwards Hotel Bldg.\*

Miss., West Point—Norris Building & Supply Co., capital \$50,000, incorporated with B. W. Norris, President; has new plant under construction, consisting of 40x32-ft. hollow tile office building, 90x200-ft. frame warehouse, 50x80-ft. woodworking plant; estimated cost \$12,500; will install \$5000 motors and machinery.

N. C., Asheboro—Cranford Chair Co., capital \$100,000, incorporated by C. C. Cranford, W. C. Page, E. D. Cranford.

N. C., High Point—Peerless Flooring Co., capital \$100,000, organized with O. L. White, Pres.; J. A. Johnson, Sec.; have expended approximately \$10,000 on new dry kilns; machinery furnished by American Woodworking Co., 19 Warren St., N. Y., and the Moore Dry Kiln Co., Jacksonville, Fla.

S. C., Fountain Inn—Dixie Fire Kindler Co. plans remodeling plant, will enlarge four times its present size; manufacture fire blocks from sawdust and pine rosin.

N. C., Stoneville—Stoneville Cabinet Co., capital \$10,000, incorporated by L. W. Matthews, R. B. Price, E. T. Stone.

N. C., Whiteville—Vineland Manufacturing Co., capital \$10,000, incorporated by W. J. Hardee, Vineland; A. J. Varter, Hammond, S. C.

S. C., Sumter—Company organized with O. L. Williams, Pres.; Frank A. Schinn, Sec., will establish furniture factory, equipment purchased; site to be selected.

Tenn., Knoxville—Knoxville Table Co., Howard Van Gilder, Pres., Slane St., let contract to J. M. Dunn & Son, Broadway and Depot Sts., for 4-story, mill type addition to present building, 50x84-ft.; estimated cost \$30,000 including equipment.

### FIRE DAMAGE

Ala., Boaz—Webb Motor Co.'s garage, loss \$10,000; building owned by J. L. Singleton.

Ala., Centerville—Buildings owned by M. M. Head at Vick, near Centerville.

Ala., Cottondale—School building; address Tuscaloosa County Board of Education, Tuscaloosa.

Ala., Dora—G. Mays' store and barn; loss \$35,000.

Ala., Eldridge—Eldridge Baptist Academy; address Board of Trustees.

Ala., Florence—Springfield School between Lexington and Ingrams Cross Roads and Sweetgum School buildings; address Lauderdale County Board of Education.

Ala., Huntsville—Grand Theater; loss \$50,000.

Ala., Marion—F. L. Bailey Lumber Co.'s plant; loss about \$60,000.

Ala., Montgomery—Harry H. Bandy's residence, 114 Clanton Ave.

Ala., Roebuck—Chappell Cory's residence; loss \$13,000.

Ala., Tuscaloosa—Joseph H. McGuire's residence near Tuscaloosa on Hargrove Rd.

Ala., Uniontown—Mrs. A. S. Corcoran's dwelling.

Ark., Blytheville—Ben Shover's electric light plant; loss \$15,000.

Ark., Corning—W. D. Polk's cotton gin; loss \$12,000.

Ark., Portland—People's Bank; stores of J. E. Bains and H. H. Gregory; loss \$50,000.

Ark., Smackover—Methodist Church, Bean Pot restaurant, Dr. A. W. Berrow offices, Roper's show shop, Steward's Circus Restaurant, Albert Griffin's cleaning and pressing shop, White Way barber shop, Grill Cafe and Wilson's studio; loss \$50,000.

Fla., Live Oak—Suwannee Springs Hotel and 5 cottages, C. M. Kenney, propr., owned by Mr. Mahone.

Fla., Seabreeze—Mrs. Martha M. Weaver's residence, 822 N. Atlantic Ave.; loss \$45,000; smoke and water damage to L. D. Drewry's residence.

Ga., Macon—Stores of Southern Paint & Glass Co. and J. E. Welch, on Mulberry St.; loss \$11,000.

Ga., Milledgeville—Administration building at Georgia State College for Women; Parks Hall and Atkinson Hall dormitories and Chapel Hall damaged; loss \$75,000; address Dr. M. M. Parks, Pres.

Ky., Belton—Belton Mercantile Co. building owned by P. S. Wood; loss \$43,000.

Ky., Bowling Green—Dr. B. S. Rutherford's residence, 1362 College St.

Ky., Pikeville—Fashion store, A. Stryk, propr., owned by Day and Night National Bank; loss \$26,000.

Ky., Richmond—Grain Mill of J. M. Park & Son; estimated loss \$10,000.

La., Convent—Burch Brothers sugar factory on the St. Claire plantation; loss not estimated.

La., Hammond—P. V. Blanchard's barn in South Hammond.

La., Rayville—Perry Cumpton's filling station and auto supply store; loss not estimated.

Md., Baltimore—Warehouse of Parrish

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



Bros., Inc., in rear of 408-10 E. Pratt St. Md., Beltsville—Garage, store, house and blacksmith shop of J. Earl Gingle; loss \$35,000.

Md., Point of Rocks—Farm buildings near Point of Rocks owned by Harry C. Hickman and tenanted by Chas. D. Hickman; loss \$6000.

Md., Queen Anne—Judge Harry Clark's residence near Queen Anne.

Miss., Jackson—Mississippi Home Fire Insurance Co.'s building at Mississippi and Congress Sts.

Miss., Mize—Administration Building and Boys' Dormitory of Smith County Agricultural School; loss \$8000; address Smith County Commissioners, Raleigh.

Miss., Oxford—Federal Clerk J. J. Vance's residence.

Miss., Philadelphia—Hotel Bush and entire block; total loss \$100,000.

Miss., Richton—Hintonville Consolidated school; loss \$10,000; address Perry County Board of Education, New Augusta.

Miss., Vicksburg—City stables on First East St. near Washington St.; loss \$15,000; address W. J. Hossley, Commissioner.

Mo., Cape Girardeau—Retail plant of Riverside Lumber Co., 3 dwellings and 6 barns and garages; loss \$50,000.

Mo., Kennett—Leach Construction Co.'s building; loss \$30,000.

Mo., Mountain View—Plant of the Standard, W. C. Parks owner and editor; George Becker, second hand store; Williams Rose, hardware store; and Arthur Smith, confectionery; loss \$15,000.\*

Mo., Paris—Producers Elevator and Exchange, C. A. Moores' garage and Dooley Hotel; loss \$25,000.

Miss., Sidon—Stores of John Favara and Mrs. Berry D. Brown; J. B. Hathcock's barber shop; residences of D. H. Browning and Richard Rogers; loss \$15,000.

N. C., Carrboro—Boarding house of Mrs. Mary K. Pendergraph; loss \$15,000.

N. C., Gastonia—C. W. Orton's residence on S. Chester St. owned by John Thomas, Hamlet, N. C.

N. C., Lexington—Standard Parlor Furniture Co.'s plant on Fifth Ave. East; estimated loss \$20,000.

N. C., Macclesfield—School building; loss \$42,000; address Edgecomb County Board of Education, Tarboro.

N. C., Maxton—Consolidated school building, 6 miles from Maxton; loss \$28,000; address Robeson County Board of Education, Lumberton.

N. C., Maxton—McKinnon Building and Alford Stables.

N. C., Monroe—J. C. M. Vann's residence, Polk Mountain in New Salem township.

N. C., Winston-Salem—Mrs. Emma Fogle's residence at Banner Ave. and Old Salisbury Road.

N. C., Winston-Salem—Ideal Theater operated by Southern Amusement Co. and held in trust by Alex. Daye; offices of Dr. John D. Perry, T. W. Kallam and J. W. Hollingsworth on second floor; Hall's Style Shop, Lashmit's Shoe Store, Rominger Furniture Co. and Wall-Huske Co.

Okla., Caddo—J. H. Cossart's barn; loss \$20,000.

Okla., Francis—School Building; address W. P. Chism, member School Board.

Okla., Hugo—Jerry Turner's residence.

Tex., Breckenridge—King Hotel, drug com-

pany, shoe shop and battery station; loss \$20,000.

Okla., Reynolds—Durant Club Building on Kiowa Lake.

Okla., Tulsa—J. M. Stubblefield Hotel at Garden City.

Okla., Tulsa—Mrs. James Messenger's residence, 606 S. Elgin St.; Claud Tingley's residence, 602 S. Elgin St.

Okla., Wilburton—Warehouse of McConville Brothers' Furniture store.

S. C., Abbeville—Stable of McKenzie & Johnson, on Washington St.

S. C., Aiken—Stables of Tillman Dyches on Fairfield St.; loss \$35,000.

S. C., Anderson—Meal grinding department of Anderson Cotton Oil Co., W. Market St.; loss \$10,000.

S. C., Bishopville—Savannah Advent Church parsonage 7 miles from Bishopville in Stakes Bridge section; A. H. Kersey, Pastor.

S. C., Cheraw—Tyler B. Watson's cotton gin; loss not estimated.

S. C., Clinton—George J. Ellis, automobile sales building on West Main St.; loss \$35,000.

S. C., Columbia—W. P. Ridley's barr

S. C., Easley—P. P. McDaniels' barr

S. C., Greenwood—Residence occupied by Murray Winn, 120 E. Creswell St.; owned by Rufus A. May.

S. C., Greenwood—Bailey Military Institute mess hall.

S. C., Liberty—J. D. Odell's residence and outbuildings, Flat Rock community, 4 miles E. of Liberty.

S. C., Olanta—B. F. Brockington's merchandise store, Central Drug Store, Truluck & Bridges' law office, stores of J. A. Thigpen, G. A. Thompson and S. J. Tomlinson; loss \$100,000.

Tenn., Chattanooga—T. H. McKinney's residence at 95 S. Crest Road, Mission Ridge; loss \$10,000 to \$12,000; Lawrence Roth's residence, 60 Lytle St., North Chattanooga.

Tenn., Dayton—Residence of H. R. Thomas, City Commr.

Tenn., Jackson—Civic League Hospital.

Tenn., Murfreesboro—Murray High School building in 23rd district; address Rutherford County Board of Education.

Tex., Carpenter—Carpenter Gin Co.'s building; loss \$20,000.

Tex., Cedar Bayou—Christian Church. Address the Pastor.

Tex., Center—Perry Brothers' Racket Store and damaged Farmers State Bank and E. H. Carter's office; loss \$15,000.

Tex., Clarksville—Clarksville Cotton Oil Co.'s plant; loss \$30,000.

Tex., Crawford—M. Marks' flour mill and elevator plant; estimated loss \$10,000.

Tex., Electra—Harris Variety Store, owned by A. E. Harris; loss \$17,500; damaged Jefferson Hotel and Massey Drug Co.

Tex., Fort Worth—Banner Furniture & Hardware Co. and Wilson Furniture Co. owned by H. B. Francis estate, 311 Houston St.; Alamo Furniture & Trading Co. owned by Howard Peck, Sr., estate, Touraine Bldg.; loss \$13,000.

Tex., Greenville—Building owned by W. H.

Bush and occupied by A. S. Moore Grocery Co. and American Woodmen of the World.

Tex., Houston—Annex to James Furniture Co., 700 Milam St.; J. W. James, Pres.

Tex., Houston—Grocery store and living quarters of Charlie Patranella, 1304 Cleveland St.; loss \$6000.

Tex., Jasper—Residence of John H. Seale, Cashr., Citizens National Bank; loss \$7500.

Tex., Kerens—T. S. Daniel Sr.'s residence. Tex., Kirbyville—C. H. Watson Grocery Store, Sam Lee's taller shop, A. L. Watson jewelry store, Service Drug Store; loss \$50,000.

Tex., Lockhart—Giescke's restaurant and P. K. Wright's store.

Tex., Lubbock—Fuller Gin Co.'s plant; loss \$20,000.

Tex., Plano—Sproles & Hughston's cotton gin; loss not estimated.

Tex., San Antonio—Ben Cordell's residence, 108 Alamosa St.

Tex., Slaton—M. G. Davis's cotton gin; estimated loss \$40,000.

Tex., Terrell—Martin-Jarvis Furniture Co. building owned by B. E. Overton; loss \$80,000.

Tex., Wharton—Storeroom of Murphy Furniture Co. and restaurant, owned by Mrs. Georgia Klein.

Va., Alexandria—Mrs. Herbert Perring Carter's residence; loss \$20,000.

Va., Fredericksburg—E. R. Hutt's residence in Westmoreland County.

Va., Lynchburg—Camp Ruthers near Forest Rd., summer camp of Y. W. C. A., 626 Church St.; loss \$7000.

Va., Middletown—Gordon G. Keith's residence; loss \$30,000.

Va., Norfolk—Main warehouse of Planters Manufacturing Co., in West Norfolk; loss \$80,000; address W. W. Hargroves, Pres. and Gen. Mgr

Va., Return—C. I. Merthershead's storehouse.

Va., Roseland—Nelson Hudson's residence.

Va., Roseville—H. C. Suthard's residence.

Va., Williamsburg—George P. Coleman's residence.

W. Va., Davy—Ted Michaelson's store and apartment building; loss \$75,000.

W. Va., Ellenboro—John Wigner's residence and store, Economy store; loss \$14,000.

W. Va., Parkersburg—Mrs. W. S. Link's private hospital; loss \$10,000.

W. Va., Kenova—U. G. Parsley Lumber Co.'s plant; loss \$15,000.

W. Va., Richwood—Main plant of the Cherokee Lumber Co.

W. Va., Mabscott—Three-story building owned by Ruffner Estate of Charleston.

ry River Boom & Lumber Co., estimated loss \$300,000.

### Damaged by Storm

Ala., Bon Air—Four warehouses, office, mercantile store and machine shop of Danville Knitting Mills; loss \$40,000; address R. O. Roberts, Mgr.

Miss., Bay Springs—Stores of W. B. Thippen, L. L. Denson, E. L. Boykin, Ainsworth Pharmacy and Ainsworth & Gregory; Will Mason's residence.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

# BUILDING NEWS

## BUILDINGS PROPOSED

### Association and Fraternal

Ala., Montgomery—Knights of Pythias, Allen Greshaw, Chmn. Bldg. Comm., has plans by Okel & Cooper, Bell Bldg., for first unit of Pythian Home.\*

Fla., Miami—Miami Masonic Temple Assn., J. Ovid Brooks, Sec., 121 N. Second St., purchased site and is reported to erect Masonic Temple at Second Ave. and 21st St.; 15 stories, 143x150 ft.; first 10 stories for hotel purposes and five upper floors for lodges; one of floors will be used for Blue Lodge, Order of Eastern Star, York Rite Masonry, one auditorium and other for offices and clubrooms.

Mo., St. Louis—Nolte & Nauman, Fullerton Bldg., advise plans for \$125,000 temple for Lambskin Lodge No. 460, A. F. & A. M., held up until Spring.\*

N. C., Asheville—Pythians and Dokays have plans by Chas. H. Neal, Beaverdam Road, for Pythian Temple at French Broad and Patton Aves.

Tex., San Antonio—Bluebonnet Masonic Lodge, J. B. Goggan, Senior Warden, will erect 2-story, 50x80 ft. lodge hall at S. Presa and Buckingham Sts.

### Bank and Office

Fla., Tampa—C. R. Traub Organization plans to erect office building.

Fla., Tampa—First National Bank, 416 Franklin St., T. C. Tallafiero, Pres., plans to erect building on site of present structure, Franklin and Madison Sts.; probably 12 stories.

La., Monroe—People's Homestead & Savings Assn., 318 DeSiard St., has plans by J. W. Smith, Ouachita Bank Bldg., for erection of 3-story fireproof office building at Catalpa and DeSiard Sts.; cost \$60,000 to \$80,000, cement, tapestry brick and granite, 25x150 ft.\*

Mo., St. Louis—Roxana Petroleum Corp., Inc., Fredk. Godber, Pres., Arcade Bldg., selected Jamieson & Spearl, 1116 Arcade Bldg., as architects for \$1,000,000 nine-story office building, 13th and Locust Sts.

S. C., Columbia—Dr. E. L. Wingfield will repair building, Main and Lady Sts.; cost \$10,000.

Tenn., Knoxville—L. P. Lampman, Yale Club, New York City, has sketches by Albert B. Baumann & Son, 813½ Market St., for 3-story and basement store and office building; cost \$40,000, 25x138 ft., hardwood and concrete floors, concrete foundation, asphalt built-up roof, interior tile, metal ceilings, plaster board, ventilators.\* (Lately noted under Buildings Proposed—Stores.)

Tex., Dallas—Z. E. Marvin, Prop., Marvin's Drug Store, 1415 Main St., has lease on site and is interested in erection of 16-story office building at Main and Akard Sts.; cost \$750,000; Lang & Witchell, Archts., American Exchange Bank Bldg.

Tex., San Antonio—Dr. F. L. Thompson, Pres., Grayburg Oil Co., Maverick Bldg., does not contemplate erection of office building as lately reported.

Tex., Weslaco—First National Bank will erect 2-story stucco building at Texas Blvd. and Fifth St.; Spanish style.

W. Va., Huntington—W. M. Prindle Building Co., 914 Fourth Ave., will rebuild third and fourth floors lately noted damaged by fire at \$11,000 loss.

### Churches

Ala., Gadsden—Methodist Episcopal Church South will erect \$15,000 building.

Ark., Jonesboro—First Presbyterian Church, E. C. Stuck, Chmn., will erect brick church in New Haltom Addition on Woodrow St.

Ark., Little Rock—Second Presbyterian Church, R. B. Oliver, Chmn., Bldg. Comm., 1702 Gaines St.; will receive bids Dec. 15 for Colonial type building, Third and Gaines Sts.; cost \$175,000, 130x120 ft., 2 stories and basement, brick and frame, hardwood and concrete floors, concrete foundation, interior tile, ornamental terra cotta, steel sash and trim, ventilators, tile roof, equipment, \$30,000, auditorium to seat 700, Sunday school 500; Sanders & Ginnochio, Archts., Hall Bldg.\*

D. C., Washington—Metropolitan Baptist Church, Rev. J. C. Ball, Pastor, 314 E. Capitol St., is reported to erect \$700,000 Sunday school addition, Sixth and A Sts., N. E.; 3 or 4 stories, 150x50 ft., brick; Appleton P. Clark, Jr., Archt., 816 Fourteenth St., N. W.

Fla., Bartow—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., plans to start construction of building about Jan. 1.

Fla., Bartow—Associate Reformed Church will erect building at Central and Stanford Sts.; English-Gothic type.

Ga., Americus—First Christian Church, W. A. Joyner, Pastor, advises that he will not erect building at present as lately reported.\*

Ga., Atlanta—Jackson Hill Baptist Church, Dr. M. K. Jenkins, Treas. Bldg. Comm., Atlanta National Bank Bldg., is having plans prepared by N. Sargent Hamilton, Flatiron Bldg., for \$100,000 church and Sunday school annex at Boulevard and Rankin Sts.; first unit will be Sunday school building to accommodate 900; cost \$50,000; brick and stone.\*

Ga., Augusta—Evangelical Lutheran Church of the Resurrection will erect \$100,000 building; Scroggs & Ewing, Archts., Lamar Bldg.; has opened December 12. Address John Sanchen, Chmn. Bldg. Comm.\*

Ga., Macon—Mulberry Street Methodist Church, Dr. Walter Anthony, Pastor, plans to erect building.

Ky., Louisville—Bardstown Road Presbyterian Church will erect \$40,000 building at 1720 Bardstown Road.

Ky., Louisville—St. George's Episcopal Church, 28th and Oak Sts., will erect parish house; brick and concrete, 40x100 ft., banquet hall to accommodate 300 to 400. Address The Pastor.

La., Lake Charles—First Christian Church, Rev. Ernest J. Bradley, Pastor, will remodel and enlarge building; re-roof stuccoed, underpin, install pews; Sunday school rooms; A. H. Humphrey, Archt.

La., Swartz—Mrs. D. A. Schumaker, 308 Ouachita Ave., Monroe, is interested in erection of Schumaker Memorial Church.

Mo., Hayti—Uzell Branson, Farmers Bank Bldg., Blytheville, Ark., Archt. for First Methodist Church advises that building has been deferred until Spring.\*

Mo., Kansas City—Serbian Orthodox St. George Church, P. G. Stipanovich, 2015 N. 14th St., contemplates erection of \$20,000,

one-story and basement, brick and stone building at Forest St. and Park Ave.

N. C., Charlotte—Prichard Memorial Baptist Church, Ben F. Favell, Chmn. Bldg. Comm., will receive bids Jan. 6 for \$150,000, 3-story building; brick, wood and concrete floors, stone foundation, copper roof, interior roof, interior tile, rolling partitions, ornamental terra cotta ventilators; Daugherty & Gardner, Archts., Stahlman Bldg., Nashville, Tenn.\*

N. C., Durham—St. Paul Lutheran Church plans to erect building; W. H. Rowe, Burch Ave., interested.

Tex., Dallas—African Methodist Episcopal Church will erect \$29,000 brick addition to building at 1826 Burford St.

N. C., Sanford—Methodist Church will erect \$20,000 Sunday school building. Address the Pastor.

Okl., Enid—Presbyterian Church, Dr. D. L. Edwards, Pastor, will erect \$150,000 church and educational building.

S. C., Greenville—East Park Baptist Church will remodel building; cost \$10,000. Address the Pastor.

Tenn., Knoxville—New Prospect Presbyterian Church, Rev. H. E. Orr, Pastor, Sevier-Pike, will erect building to replace structure recently burned; cost about \$40,000.

Tex., Charlotte—Catholic Church, Rev. H. Elorz, Pastor, is having plans prepared by Leo M. J. Dielmann, 306 E. Commerce St., San Antonio, for erection of \$10,000, one-story building.

Tex., Cloeman—Church of Christ, G. F. Mickey, pastor, contemplates erection of \$12,000 brick and concrete building.

Tex., Eden—First Baptist Church will erect \$20,000 brick and concrete building. Address The Pastor.

Tex., Ganado—Catholic Church, Rev. J. B. Karnowski, Pastor, Edna, Tex., is receiving bids for erection of \$10,000, one-story frame building; Leo M. J. Dielmann, Archt., 306 E. Commerce St., San Antonio.

Tex., Leonard—Presbyterian Church, Rev. E. E. Diggs, pastor, has plans by Clyde & Rolfe, Sherman, for \$20,000, 2-story, 50x84-ft., brick building; stone trim, tile roof, plaster walls.

Tex., Lubbock—Cumberland Presbyterian Church, J. B. Pryor, Chmn., Bldg. Comm., will erect English Gothic type building on site of present structure; 47x82 ft., brick.

Tex., Roby—Methodist Church, Rev. Joe E. Boyd, pastor, contemplates erection of \$15,000 brick and concrete building.

Tex., Staples—Methodist Church, Rev. A. Guyon, Pastor, plans to erect building.

Va., Richmond—Centenary Methodist Church, Grace St. between Fourth and Fifth Sts., plans to erect \$50,000, 40x82-ft. fireproof addition for Sunday school purposes; Chas. M. Robinson, Archt., Times-Dispatch Bldg.\*

Va., Richmond—Pine Street Baptist Church plans to erect 3-story brick Sunday school annex; cost with furnishings, \$95,500, metal ceilings, hardwood and concrete floors, plaster board, rolling partitions; Herbert L. Cain, Archt., Grace St. Bank & Trust Bldg.; contracts will not be let or work started for considerable time yet. Address E. I. Parrish, 412 W. Broad St.\*

W. Va., McMechen—St. James's R. C. Church will remodel building. Address The Pastor.

### City and County

Ala., Birmingham—Fire Stations—City Commission, D. E. McLendon, Pres., contemplates erection of fire station on Clairmont Ave. and one at Avondale.



Ala., Mobile—Detention Home—Mobile County Board of Revenue, Albert S. Towle, Chmn., plans to erect girls' detention home at Toulminville and negro quarters at poor farm.

Ark., El Dorado—Courthouse—Union County, Judge G. S. Tatum, contemplates erection of courthouse to cost about \$300,000.

Fla., Fort Lauderdale—Community Building—City Commissioners are having plans prepared by J. M. Peterman for \$40,000 community building; auditorium to seat 1300.

Fla., Fort Pierce—Fire Station, City Hall and Jail—City, C. F. Green, Clk., will receive bids Dec. 23 for erection of \$50,000 city hall, \$10,000 jail and fire station; Italian renaissance type, 2 stories, hardwood tile and concrete floors, concrete foundation, tile roof, hollow tile, ornamental cast stone, vaults; Wm. W. Hatcher, Archt.\*

Fla., Miami—Farmers' Market, Hospital—City, Ernest Cotton, Director of Public Service, will call election (date not set) on \$1,500,000 bonds, including \$75,000 for farmers' open air market, E. and S. W. Second Ave. N. of River, and \$50,000 for city hospital.

Fla., Sarasota—Courthouse—Sarasota County Commrs. purchased site at Main St. and Washington Blvd. and contemplates erection of \$150,000 courthouse.

Ky., Hazard—City Hall—City, J. W. Craft, Mayor, will erect hollow tile building to house fire department, etc.; cost about \$10,000; 2 stories, pine floors, concrete foundation, fireproof asbestos roof; C. C. & E. A. Weber, Archts., 1408 Ingalls Bldg., Cincinnati; heating, lighting, plumbing not let. Address L. Corley, City Clk.\*

Ky., Owensboro—Hose House—City Commissioners contemplate erection of hose house in Southern section near corner of 18th and Triplett Sts.

La., New Orleans—Markets—City Commissioners are having plans prepared by O. P. Mohr, 734 Union St., for remodeling 20 public markets; cost \$200,000.

Md., Cumberland—Courthouse Annex—Allegheny County Board of Commrs., Henry A. Bachman, Pres., receives bids Dec. 23 for 2-story brick addition to courthouse; cost \$50,000; furnishings, equipment, etc., \$15,000; stone and brick foundation, 2 stories and basement, 33.3x50.3 ft., maple and concrete floors, 4-ply built-up roof; major items to be purchased include steel, brick, new elevator and heating boilers, plumbing fixtures, cut stone, moulded brick, maple flooring; plans and specifications from Thos. W. Bidle, Archt., McFarland Bldg.\*

Mo., Independence—Memorial Building—City will erect memorial building; Geo. B. Post Co., Archts., 1093 A. & R. Bldg., Kansas City, Mo., Chicago and New York City.

N. C., Raleigh—Detention Home—Wake County, Mrs. T. W. Bickett, Public Welfare Officer, contemplates erection of home to consist of community of cottages for boys and girls; also plans similar buildings for negroes.

Tex., Ballinger—Jail—Runnels County, Paul Trimmer, Judge, will call for competitive bids in about two weeks for preparing plans for \$50,000 jail.

Tex., Houston—Farmers' Market—City, O. F. Holcombe, Mayor, plans to call \$2,500,000 general bond election in April, to include \$300,000 for farmers' market.

Tex., Houston—Jail and Criminal Offices—Harris County, Chester H. Bryan, County Judge, is having tentative plans prepared by Alfred C. Finn, Goggan Bldg., for Harris County Criminal Courts Building; offices and jail, cost about \$500,000; will probably call bond election.\*

Tex., San Antonio—Clubhouse—City, R. C. Oliver, Supervisor of Municipal Recreation, has plans by Geo. Willis, Chandler Bldg., for field stone clubhouse at Breckenridge Park; concrete foundation, frame roof, 1½ stories, 50x80 ft., cement floors, steel sash, cost without furnishings and equipment, \$15,000.\*

Tex., Tyler—Auditorium—Chamber of Commerce, O. M. Crenshaw, Secy., is promoting erection of auditorium with seating capacity of about 3000.

Va., Portsmouth—Fire Station—City, Mr. Jervey, Mgr., contemplates erection of fire station, improvements to sewer system, etc., in Ninth Ward.

Va., Richmond—Park Buildings—City, Jack L. Epps, Edgar B. English, Councilmen, will erect bathhouse, athletic field dressing rooms, etc., in Byrd Park; cost \$12,000; Carneal & Johnston, Archts., Va. Ry. & Power Bldg.\*

### Dwellings

Ala., Tuscaloosa—Clyde Nelson, Birmingham, is having plans prepared by George Turner, Birmingham, for Spanish type dwelling in Highlands subdivision.

Ala., Tuscaloosa—Pelham Brown will erect Spanish type dwelling in Highlands subdivision; George Turner, Archt., 232 N. 48th St., Birmingham.

Ala., Tuscaloosa—W. H. Nicol will erect residence in Highlands subdivision; Spanish type; George Turner, Archt., 232 N. 48th St., Birmingham.

Ark., Little Rock—S. W. Allen will erect residence at 5011 Woodlawn Ave.

Ark., Little Rock—Bumpass & Worthen will erect residence at 121 Alpine Pass.

Ark., Little Rock—Cullen & Stephens will erect residence at 319 Valmar St. and brick veneer residence at 501 Johnson St.

Ark., Little Rock—B. L. Ulmer, 210 N. Pine St., will erect brick veneer residence at 811 W. 24th St.

D. C., Washington—R. W. Bolling, 1510 Nineteenth St., will erect \$25,000 residence, 2456 Tracy Place, N. W.; 2½ stories, 54x39 ft. brick; Porter & Locke, Archts., Transportation Bldg., 17th and H Sts., N. W.

Fla., Arcadia—A. H. Wale will erect number of dwellings in connection with development of Riverside sub-division on Manatee-Sarasota-Arcadia Highway; Will S. Loflin, Constr. Engr.

Fla., Auburndale—A. J. Baldwin, Sparks, Ga., will erect residence.

Fla., Auburndale—Henry Proutaut, Augusta, Ga., will erect 2-story brick dwelling.

Fla., Cocoa—L. E. Fay will erect several dwellings in connection with development of 30-acre tract.

Fla., Fort Pierce—Koblegard Realty Corp. will erect 25 dwellings.

Fla., Fort Pierce—N. M. Letts Realty Co. plans to erect 25 dwellings to cost not less than \$6000 each; Spanish type, 7 or 8 rooms.

Fla., Jacksonville—T. B. Rogers will erect Dutch colonial brick and stucco residence at Donald and Forbes Sts.

Fla., Lake Worth—R. H. Hartman will erect \$15,000 residence on N. Lakeside Drive; also erect apartment house.

Fla., Leesburg—S. B. Estes, 411 South Delany St., Orlando, and O. H. Dudley, Leesburg, will erect 30 dwellings in subdivision joining Kerl Addition; cost \$3500 to \$4500.

Fla., Miami—E. C. Schwab is having plans prepared by H. George Fink, Congress Bldg., for 4 six-room Spanish type dwellings costing \$7500 each in Section B, Carol Gables.

Fla., Miami—B. C. Brown will erect \$12,000 cement block and stucco residence, N. E. 51st St.

Fla., Miami—Geo. Carlin plans to erect 5 dwellings in Hollywood Park; Spanish type, 4 rooms and baths, stucco.

Fla., Miami—Gertrude Hassler, 324 N. E. 35th St., will erect \$10,000 residence, N. E. 50th St., Alta Vista.

Fla., Orlando—Cooper-Atha-Barr Co., 112 S. Orange Ave., plans to erect 50 dwellings in connection with development of tract on Kuhl Ave.

Fla., St. Petersburg—S. H. Kelley will erect two dwellings in Fruitland Heights.

Fla., St. Petersburg—J. L. Kennedy will erect two residences in Highland Terrace Park.

Fla., St. Petersburg—J. Nation will erect two dwellings in Highland Terrace Park.

Fla., St. Petersburg—A. W. Ross will erect two residences in Highland Terrace Park.

Fla., St. Petersburg—Ross Real Estate, Inc. will erect 50 dwellings in Bellaire Heights, costing \$7000, \$12,000 and \$20,000.

Fla., Sarasota—Anthony Gelsner and Wm. J. Meyers, of New York, in connection with Frank N. Tyler of Dean-Tyler Co., Inc., Sarasota, will erect number of duplex houses; also erect apartment building on Orange Ave.

Fla., Tampa—J. T. Beasley, 1005 DeLeon St., will erect residence in Beach Park.

Fla., Tampa—M. D. Beasley will erect residence in Beach Park.

Fla., Tampa—Milton Mabry will erect residence in Beach Park.

Fla., Tampa—Judge E. V. Whittaker will erect residence in Beach Park.

Fla., West Palm Beach—Golden Gate Development Co., G. W. Bingham, Pres., will erect number of dwellings and business buildings, Palm Beach county opposite St. Lucie Inlet, in addition to 2-story, 25x40-ft. office building under construction.

Ky., Blackey—Rockhouse Coal Co. advises that it does not contemplate erection of miners dwellings at this time.\*

Ky., Hazard—C. L. Fuson will erect \$10,000 residence; contract at once.

Ky., Louisville—C. Robt. Peter, Realty Bldg., will erect 20 buildings, Rufer and Julia Aves.; \$4000 each.

Ky., Louisville—Helm Bruce, Jr., Inter-Southern Bldg., will erect \$12,000 residence at 1739 Sulgrove Road.

Ky., Louisville—Otis & Bruce, Inter-Southern Bldg., will erect \$12,000 dwelling at 1915 Spring Drive.

Ky., Louisville—W. R. Phillips, 2800 Long St., will erect five dwellings; cost \$15,000.

Ky., Mater—Elkhorn Coal Co. will erect 25 miners houses; contract Dec. 18.

La., New Orleans—Louis Rosensen, 211 Brainard St., will erect several double cottages at Eagle and Monroe Sts.

Ky., Sergeant—Imperial Elkhorn Coal Co. will erect several miners houses; contract let Jan. 1.

La., New Orleans—J. A. Palfrey, 537 S. Rampart St., will erect \$15,000 double cottage, 3821-23 Second St.

La., New Orleans—A. C. Amrein, 505 S. Scott St., contemplates erecting double cottage, Tricou and St. Maurice Sts.

La., New Orleans—Miss D. Beckley, 1536 Webster St., plans to erect bungalow, Henry Clay and Benjamin Sts.

Md., Baltimore—Gibraltar Construction Co. will erect 9 brick dwellings, 517-33 Beecher Ave.; 2 stories; total cost \$22,000.

Md., Baltimore—Mottu & White, 527 N.

Charles St., prepared plans for \$25,000 residence; 2½ stories, about 32x40 ft., brick.

Md., Baltimore—Geo. M. Hampton, 100 E. Fayette St., will erect 6 brick dwellings, N. E. cor Prestman and Friendsbury Sts.; 2 stories; total cost \$15,000.

Md., Baltimore—Citizens Investment Co., 501 Morris Bldg., will erect five frame bungalows on Montebello Ave. near Overland and Arlington Aves.; cost \$20,000.

Md., Baltimore—Charles F. Husted, 319 Roland Ave., will erect \$15,000, 2½-story hollow tile dwelling on S. W. side of Edgevale Road near Plover Lane, Roland Park.

Md., Baltimore—Ed. J. McGraw, 2304 Mt. Royal Terrace, will erect \$12,000, one-story brick dwelling at Lancery St. east of Greenway.

Md., Baltimore—George R. Morris Organization, Morris Bldg., will erect 2-story brick dwelling and garage at 6114 Winans Way; cost \$10,000, 35x25x27 ft.

Md., Baltimore—C. Edgar Wood, Harford Rd., will erect three frame bungalows on N. E. side Harview Ave. near Shadow Lane; cost \$13,000.

Md., Baltimore—Fulton E. Yewell will erect 97 dwellings, Garrison, Kate, Granada and Oakford Aves.; 2 stories, brick.

Md., Baltimore—Wm. J. T. French, 4800 Liberty-Heights Ave., will erect two 1-story frame dwellings on west side Belmont Ave. south Liberty Heights Ave. and four at s. w. corner Belmont Ave. and Liberty Heights Ave.; 25x22x26 ft.; cost \$24,000.

Md., Baltimore—Cornelius M. Morrison, 3601 Forest Park Ave., will erect 2-story, 38 x 43-ft. frame dwelling at s. e. corner Kathleen and Forest Aves.; cost \$12,000.

Miss., Biloxi—Dr. Samuel C. James will remodel residence; cost \$10,000.

Miss., Hazlehurst—A. A. Ainsworth will rebuild residence burned at \$8000 loss.

Mo., Clayton (Sta. St. Louis)—Edna Pockel, 6208 S. Drive, Pine Lawn, will erect \$14,500, 26x28 ft., brick dwelling, block one, Natural Park.

Mo., Kansas City—Axel Cato, 5401 Rockhill Rd., will erect residence at 5405 Rockhill St.

Mo., Kansas City—Emil T. Stokes, 4315 Penn St., plans to erect 3 duplex dwellings for negroes, 28th and Vine Sts.

Mo., Kansas City—W. C. Rice, 205 Land Bank Bldg., will erect residence at 2709 Elmwood St.

Mo., Kansas City—F. W. Stosberg, 3218 Prospect Ave., will erect residence at 4943 Woodland St.

Mo., Kansas City—Emil B. Wayner will erect residence at 4027 E. 69th St.

Mo., Springfield—Mrs. William M. Bradlye, 629 E. Delmar St., will erect residence at 800 Normal St.

Mo., Springfield—H. B. Warren will erect residence at 933 E. Turner St.

N. C., Charlotte—R. S. Motte, 604 Kingston St., will erect \$7000 dwelling, Kingston Ave., and one in 1100 block Worthington Ave.; 6 rooms each.

N. C., Charlotte—J. L. Oxentine, Stancill & Davis, Law Bldg., will erect 7 dwellings, 1000 block E. Second St. and 3 at Second and Morrow Sts.; total cost \$11,500.

N. C., Deep Run—Mrs. Julia Smith will erect dwelling on Central Highway; frame, brick foundation, metal roof.

N. C., Winston-Salem—Mrs. Emma A. Fogle, Banner Ave., will erect residence on Southside to replace recently burned structure.

Okla., Tulsa—F. M. Strong will erect num-

ber of dwellings in Reservoir Hill addition; 8 rooms, brick.

Tenn., Knoxville—Fretz Realty Co., 726 Market St., Eugene F. Fretz, Pres., will erect two 5-room dwellings and one 6-room dwelling in 2000 block of E. Fifth Ave.; frame, concrete basements, hardwood floors; also erect two 6-room dwellings on Cecil St.; total cost \$18,000.

Tenn., Nashville—Fitzgerald Hall, 301 23d Ave., N., will erect \$15,000 residence, Ensworth Ave.; Tisdale, Stone & Pinson, Archts., 418-19 Independent Life Bldg.

Tenn., Nashville—Ike Karnosky, 401 Fairfax Ave., will erect \$10,000 residence, Whitland Ave.; Tisdale, Stone & Pinson, Archts., 418-19 Independent Life Bldg.

Tex., Austin—Ewell Nalle, Travis Heights Blvd., will erect \$10,000 two-story residence, 1700 San Gabriel St.; Mr. Nalle is erecting \$5000 addition to two-story Statesman Bldg.

Tex., Dallas—J. B. Cain, 5218 Parry St., will erect four 5-room frame cottages at 4802-6-10-14 Parry St.; cost \$12,000.

Tex., Dallas—R. M. Rowe, Chamber of Commerce Bldg., will erect 2-story brick veneer residence at 5607 Gaston Ave.; cost \$10,000.

Tex., Dallas—Dr. H. G. Walcott, Medical Arts Bldg., will erect 2-story 10-room frame residence, 4315 Glenwood St.; cost \$15,000.

Tex., Dallas—Fred Webber, 3229 Swiss St., and Dr. W. W. Shortall will erect 10-room brick residence at 6005 Swiss St.; cost \$15,000.

Tex., San Antonio—Chas. Dierolf, 1231 Virginia Blvd., is having plans prepared by Beverly Spillman, Alamo Bank Bldg., for one-story brick and hollow tile residence in Highland Park; cost \$15,000.

Tex., San Antonio—Florence D. Kelley will erect \$10,000 14-room dwelling, 414 E. Ashby Place.

Tex., San Antonio—H. L. Joster, 223 Carson St., will erect residence in Katherine Court, Country Club Heights.

Va., Richmond—C. F. Sauer, Sr., 4230 W. Grace St., will erect \$12,000 brick dwelling at 1411 Sauer Ave.

Va., Richmond—Beulah Strunt will erect \$12,000 brick dwelling at 4203 Chamberlayne Ave.

W. Va., Martinsburg—C. E. Kettering will erect double residence, Raleigh St.

## Government and State

D. C., Washington—Library of Congress Auditorium—Herbert Putnam, Librarian of Library of Congress, has submitted to Congress offer from Mrs. Frederic Shurtlett Coolidge, New York City, for \$50,000 auditorium.

Fla., St. Petersburg—Post Office—Treasury Dept., Jas. A. Wetmore, Acting Supervising Archt., Washington, D. C., will erect \$20,000 emergency post office building; Roy S. Hanna, Postmaster, St. Petersburg; bids opened.

N. C., Raleigh—Department of State Building—W. N. Everett, Sec. of State, Raleigh, rejected bids for fireproof office building for Department of State, Morgan and Salisbury Sts., cost without furnishings, \$450,000; Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill.\*

S. C., Anderson—Postoffice—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., will receive bids Jan. 5 for extension and remodeling, including changes in mechanical equipment of postoffice; drawings and specifications from Custodian at site or from office Supervising Archt.

## Hospitals, Sanitariums, Etc.

Fla., Miami—City, Ernest Cotton, Director of Public Service, will vote on \$50,000 hospital bonds; date not set. (See Buildings Proposed—City and County).

Fla., Ocala—City contemplates calling election on \$85,000 bonds to erect hospital. Address The Mayor.\*

Ky., Lexington—Kentucky State Crippled Children's Society, Dr. John Emil Sullivan, Pres., Covington, plans to erect 10-room unit to building near Lexington for hospital purposes.

Md., Baltimore—Johns Hopkins Hospital, Dr. Winford H. Smith, Supt., Monument St. and Broadway, will call for bids about Jan. 1 on 8-story nurses' home; cost \$500,000, brick, limestone and steel; Jos. Evans Sperry, Archt., 401 Calvert Bldg.; H. F. Wolman, Struct. Engr., 507 N. Charles St.; C. L. Reeder, Mech. Engr., 916 N. Charles St.\*

Mo., Nevada—Board of County Commrs., J. V. Edmondson, Clk., Courthouse, and State Eleemosynary Board, Jefferson City, will erect \$100,000, two or three-story, brick hospital building.

N. C., Charlotte—Mecklenburg County, J. B. McLaughlin, Chmn. Commrs., voted \$100,000 tubercular hospital bonds.\*

S. C., Spartanburg—Dr. Tizrah Hughes purchased 350-acre site in Gowansville section, Greenville County, and plans to erect chiropractic sanitarium.

Tex., Big Lake—Chamber of Commerce is promoting erection of 24-bed hospital.

Va., Lynchburg—Marshall Lodge Memorial Hospital Board of Directors contemplates erection of \$85,000 unit to accommodate 50 beds; Lillian Van Pelt, Supt.

Va., Winchester—Winchester Memorial Hospital will erect addition to nurses' home, heating plant, etc.; cost \$50,000.\*

## Hotels and Apartments

Ala., Carbon Hill—Mrs. L. V. Wiggins contemplates erecting \$25,000, 30-room hotel; hollow tile, metal ceilings, plaster board, metal doors, concrete floors, ventilators, ornamental terra cotta, rolling partitions, steel sash and trim, wire glass.\*

Fla., Clearwater—David P. Bierbrauer has purchased property at Druid Road and Pine St. as site for apartment house.

Fla., Miami—Frank F. Garsen will erect \$14,000 cement block, 4-family apartment building at S. W. 13th and Fourth Sts.

Fla., Miami—C. J. Schweiterman will erect \$25,000, 2-story apartment building.

Fla., Miami—W. C. Briggs, 259 N. E. 24th St., has plans by R. A. Preas and will start work at once on \$12,000, 36x50 ft., 4-family apartment building on N. E. 25th St.; each apartment to contain sun porch, living room, dining room, dining alcove, kitchen and bath.

Fla., Miami Beach—N. B. T. Roney, 426 Collins Ave., purchased property on ocean front with 275 ft. frontage and extending 450 ft. back to Collins Ave., as site for proposed hotel, the first unit to cost \$1,000,000.

Fla., Palm Beach—Joseph P. Shea purchased M. E. Gruber Ocean Blvd. corner at Clarke Ave. and is reported to contemplate erecting hotel.

Fla., St. Petersburg—J. W. Wilhelm, 1621 First Ave., N., plans to erect 3-story, \$15,000 apartment building. (See Buildings Proposed—Miscellaneous.)

Fla., Sarasota—Rhodes and Hale laid foundation for \$50,000, eight 3-room suite apartment building on Osprey Ave.

Fla., Sebring—George E. Sebring and asso-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



clates are reported to contemplate erecting \$1,500,000 hotel.

Fla., Tampa—Starkey Investment Co., C. V. Starkey, Pres., 105 E. Lafayette St., has leased J. V. Pierce property, 250 ft. on Parker St., 150 ft. deep and 57 ft. on Eagle St., as site for proposed \$350,000 apartment building.

Fla., Vero—Theodore Weiss, 2733 Girard St., Philadelphia, Pa., has purchased property and will erect William Penn Apartments in Royal Park.

Ga., Atlanta—Miss L. Armstrong will erect two 2-story frame apartments at 168 and 70 Woodward Ave.; \$20,000.

Ga., Perry—Odom Realty Co., S. E. Odom, Pres., will start work this week on \$90,000, 3-story, hollow tile with stucco finish hotel building.

La., Natchitoches—Chamber of Commerce is promoting erection of 100-room hotel.

La., New Orleans—Frederick A. Earhart, 731 Napoleon Ave., contemplates erecting apartment house in 2 or 3 months on Louisiana Ave. parkway, S. Broad, Toledano and S. Dorgenois Sts.

La., New Orleans—Emile Well, Archt., Whitney Bldg., will soon place plans and specifications on market, for remodeling St. Charles Hotel, to cost \$500,000; install new elevators, re-wire for electrical work, new plumbing and heating facilities, etc.

La., Shreveport—Glen S. Cheesman, Ward Bldg., has plans in progress for apartment building in Fairfield section.

Mo., Kansas City—C. O. Jones, 402 Continental Bldg., is reported to begin work in about two weeks on 14-story hotel building at 1213-15 Wyandotte St.; shops on first floor; each floor above to contain 16 sleeping rooms with bath and six kitchenettes with dining alcoves; roof garden to contain stage and kitchen facilities.\*

Mo., St. Louis—M. Mueller, care Archt., has plans by O. J. Popp, Arcade Bldg., for \$15,000, 2-story, 26x100 ft., brick bake shop and flat building, S. S. of Penrose Court.

Mo., St. Louis—Hotel Jefferson Co., Lyman T. Hay, Pres., has plans in progress by T. P. Barnett & Co., Arcade Bldg., and will start work in about three months on \$1,500,000 13-story, steel, 300-room hotel, 12th, Locust and St. Charles Sts.; hollow tile, wood block, hardwood and concrete floors, mail chutes, ventilators, vaults, vault lights, rolling partitions, steel sash and trim, wire glass.\*

N. C., Durham—Clara T. Bellamy, owner of Bellamy Apartments building at 832 Mangum St., recently destroyed by fire, contemplates rebuilding; \$25,000, 2 stories, 110x70 ft., wood floors, brick foundation, slate roof.\*

N. C., Winston-Salem—Roaring Gap, Inc., Leonard Tufts, Pres., Pinehurst, has plans in progress by Chas. Barton Keene, 1218 Chestnut St., Philadelphia, Pa., for \$100,000, 4-story, 182x37 ft., stone hotel building in connection with development; oak and pine floors, stone foundation, slate roof, interior tile, metal doors, steel sash and trim, wire glass, 1-pipe steam heat, 1 passenger elevator.\*

S. C., Greenville—P. D. Wade, Augusta Rd., has plans in progress by Martin & Ward, N. Main St., for \$100,000, 3-story, 21-apartment building at Augusta St. and Tindall Ave.

Tenn., Chattanooga—Dr. W. A. Banks, 1700 Chamberlain Ave., contemplates converting building occupied by Physicians and Surgeons Hospital, into apartment building.

Tenn., Knoxville—New Imperial Co., care Robert R. Meyer, Jefferson County Bank Bldg., Birmingham, has plans by Wm. L. Stoddard, 50 E. 41st St., New York City, and

will ask for bids at once for 75x125 ft., 100-room, \$200,000 additional to Farragut Hotel.

Tex., Corpus Christi—Herbert S. Green, Archt., Alamo Bank Bldg., San Antonio, preparing plans for 4-story, brick, hollow tile and reinforced concrete, 50-room hotel to be known as New State Hotel; owner's name withheld.

Tex., Dallas—A. P. Deitrick, 2834 Forest St., will erect \$13,000, 12-room, brick veneer, 2-apartment building at 4100-02 Holland St.

Tex., Dallas—J. L. Leard will erect \$15,000, 20-room, brick veneer, 4-apartment building at 5617-19 East Side.

Tex., Laredo—M. Little, owner of Hamilton Hotel, has plans by George L. Walling, Austin, for \$400,000, 10-story, reinforced concrete 304-room hotel.\*

Tex., Rotan—L. C. Miller will soon start work on \$35,000, 2-story, 30-room brick and concrete hotel building.

Tex., San Antonio—Phelps & DeWees, Architects, Gunter Bldg., is preparing plans for improvements at Gunter Hotel, Houston and St. Marys Sts., to cost \$30,000; lobby and basement remodeled, interior rearrangement and extensions, etc.

W. Va., Weston—Chamber of Commerce is interested in erection of hotel.

### Miscellaneous

Fla., Jacksonville—Market—H. L. Nelson, Apopka, has leased 20,000 sq. ft. property at N. W. cor. Hogan and Church Sts. as site for public market; main building, 3 stories, will cost \$150,000, including equipment; Mark & Sheftall, 210 Clark Bldg., have completed plans.

Fla., Miami Beach—Casino—John A. Cook has plans in progress by W. F. Brown, Real Estate Bldg., Miami, for 3-story casino building at S. E. cor. Ocean Drive and Fifth St.; work on first floor to contain store-rooms will start at once; second and third and boardwalk and pools will be added during next summer.

Fla., Ocala—Buick Realty Corp., David R. Buick, Pres., reported to have acquired 1700 acres of land on Lake Wier, and contemplates developing Buick City; contemplate tourist hotel, bathing and amusement facilities, golf and tennis courts.

Fla., Orlando—Clubhouse—Mayor James L. Giles is interested in erection of \$50,000 clubhouse.

Fla., St. Petersburg—Funeral Home—J. W. Wilhelm, 1621 First Ave., N., will start work at once on \$80,000, 3-story, concrete, brick and tile funeral home at corner Eighth St. and Second Ave.; ground floor tiled, will contain chapel, 2 corridors 10 ft. wide, patio, porch enclosed in glass, offices, private family room, reception rooms, slumber rooms; on second floor will be show-room, slumber parlors, operating rooms, flower room, work rooms, recreation parlor and apartments for employees; living quarters and stock room on third floor; steam heat, elevators; plans to erect 3-story, 15-apartment building as addition.

Ga., Athens—Stadium—Athletic Board of Georgia Athletic Assn. contemplates erecting stadium to seat about 30,000; Dean C. M. Spelling, Chmn. Executive Comm.

Ga., Fort Valley—Clubhouse—Miss Claudia Culpeper is chmn. of committee for purchase of lot and erection of clubhouse.

Ky., Paducah—Clubhouse—Woman's Club, Mrs. T. E. Elgin, Pres., has raised \$20,000 and will soon let contract for auditorium annex on Kentucky Ave.; G. Tandy Smith, Archt.\*

La., Baton Rouge—Clubhouse—Westdale Country Club, C. I. Fiero, Pres., 738 N. Bou-

levard St., contemplates erecting \$30,000 to \$35,000 clubhouse, tennis courts, swimming pool, etc.; Scobell & Selfried has contract for 9-hole golf course.

La., New Orleans—S. Mints, 3403 Napoleon Ave., has plans in progress by Favrot & Livanais, Hibernia Bldg., and will call for bids in about a month, for rebuilding 5-story building on Baronne and Lafayette Sts. destroyed by fire; \$125,000.

Md., Baltimore—Community Building—English Consul Improvement Assn. plans to purchase site and erect community building.

Mo., Kansas City—S. Randazzo, 1116 E. 44th St., will erect \$20,000, 2-story, brick building at 306 Main St.

Mo., Kansas City—Music Hall—Kansas City Music Teachers' Assn., 800 Linwood Bldg., plans to erect music hall to exceed \$150,000; Engr. and Archt. not selected.

N. C., Durham—Home—Old Ladies Home, Gloria Ave., Building Committee, Mrs. John Angier, Mrs. B. H. Thomas and others, accepted tentative plans by Milburn, Heister & Co., First National Bank Bldg., Durham, Union Savings Bank Bldg., Washington, D. C., for \$50,000, 2-story, brick with limestone trimming, 40x160 ft., 35-room home; slate roof, vapor system heating; contain laundry, servants rooms, parlor, dining room, and sun porches; basement will provide laundry, servants rooms, storage room and mechanical plant; plans ready for contractors about Jan. 1st.

N. C., Goldsboro—Wayne County Memorial Community Building has plans in progress by John D. Gullett, Goldsboro, and C. A. Cosner, Temple Bldg., Camden, N. J., for \$35,000, 2-story, 115x100 ft. Memorial and Community Building; major items to be purchased include heating and plumbing fixtures, auditorium seats, furniture, gymnasium equipment, lockers, bronze tablets; address Latham O'Berry, Chmn. Building Committee.\*

Tenn., Jackson—Fair Buildings—West Tennessee District Fair Assn., W. F. Barry, Sec., contemplates extensive improvements to fair buildings.

Tex., Harlingen—Country Club—Arroyo Country Club, W. H. Steffins, La Feria, Pres., and W. J. Hinkley, San Benito, Vice-Pres., contemplates erecting \$200,000 country club in Lower Rio Grande Valley, between Harlingen and San Benito; plans call for hotel, 18-hole golf course, locker house and lounge, swimming pool and bath house, tennis courts, polo fields, traps for pigeon shooting, fishing camp at Redfish reef and hunting camp at Tamaulipas, Mex.

Tex., Mineral Wells—Library—Mineral Wells Library Assn. contemplates erecting library building; site available.

Tex., San Antonio—Clubhouse—San Antonio Woman's Club, Mrs. F. F. Stauffer, Pres., 232 Hollywood St., contemplates erecting \$100,000 clubhouse on site of present building on Camden St. near Main Ave.; Mrs. Henry Drought, Chmn. ways and means committee.

Tex., San Antonio—Grandstand—San Antonio Baseball Club, City National Bank Bldg., T. E. Conner, Jr., Sec., advises in regard to \$25,000 grandstand on Jones Ave.: "We do not know anything about this."\*

Va., Salem—Board of Trustees of Lutheran Orphan Home for the South, Rev. J. Luther Sieber, D. D., pastor St. Mark's Evangelical Church, Roanoke, Pres., will replace present buildings with new plant; will include school, administration and 4 cottage buildings; \$200,000.\*

W. Va., Wheeling—Mortuary—Louis Bertschy has purchased Linsly Institute building, 15th and Eoff Sts., and will convert into mortuary with apartments above.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Railway Stations, Sheds, Etc.**

Tenn., Erwin—Carolina, Clinchfield & Ohio R. R. Co., Mr. Phetteplace, Gen. Mgr., is reported to contemplate erecting new station.

**Schools**

Ala., Fairfield—City voted \$144,000 bonds for erecting grade school; address Dr. B. B. Baker, Supt.\*

Ark., Homan—Miller County Board of Education, Texarkana, is reported contemplates erecting 5-room, brick school building.

Ark., Little Rock—C. S. Hanby, 214 Hotel Marion, is campaign director for \$400,000 for endowment and building fund for Henderson-Brown Methodist College.

Ark., Little Rock—Board of Trustees Frazier School District has plans by Jas. H. Bliss & Son, A.O.U.W. Bldg., for Earl Frazier school, on Frazier Pike, east of Little Rock.

Fla., DeSoto City—City, Dr. E. J. Etheridge, Mayor, will call election for first unit of \$40,000, brick or hollow tile high school building.

Fla., Jacksonville—Dr. F. A. Hathaway, Supt. submitted to Duval County Board of Public Instruction, proposal and plans for enlargement of school facilities, involving about \$2,500,000.

Fla., New Smyrna—New Smyrna School District Board of Trustees contemplate \$200,000 bond election for erecting \$150,000 high school, negro school and additions and improvements to present buildings.

Fla., Oneco—Manatee County Board of Public Instruction, Bradentown, has plans by J. H. Johnson, Bradentown, for \$18,000 hollow tile and stucco, 1-story school building; tile and composition roofing, pine floors, concrete foundation; will open bids about January 1.\*

Ga., Atlanta—Fulton County Board of Education has plans in progress by Hentz, Reid & Adler, 1330 Candler Bldg., for \$200,000, 2-story and basement, reinforced concrete and brick high school building in Beall Park, Washington St. and Woodward Ave.; hollow tile, metal ceilings, hardwood and concrete floors, vaults, ventilators, wire glass.\*

Ga., Milledgeville—Georgia State College for Women, Dr. M. M. Parks, Pres., contemplates immediate reconstruction of administration building and repairs to Parks Hall and Atkinson Hall dormitories, recently burned at \$75,000 loss.

Ky., Whitesburg—Letcher County Board of Education will let contract for erecting 2 school buildings.

Ky., Lexington—University of Kentucky, care D. H. Peak, Bus. Agent, Rose and High Sts., will open bids January 3 for \$100,000, slow-burning, brick and wood joists, chemical laboratory; L-shape, 52x92 and 52x97 ft., yellow pine floors, two stories and basement, sub-basement under part, slate roof, limestone foundation, vacuum system heating, general wiring, ventilating fans, storage batteries, motor generator, sanitary and laboratory table plumbing, freight elevator; separate bids on heating and ventilating, wiring, and plumbing; major items to be purchased include laboratory furniture, etc.; Coolidge & Shattuck, Archts., Ames Bldg., Boston, Mass.\*

La., Grand Cane—DeSoto Parish School Board, Mansfield, will open bids Jan. 7th, for 2-story, brick walls, wood joist high school building; J. W. Smith, Archt., Onachita Bank Bldg., Monroe.\*

Md., Baltimore—Dr. John O. Spencer, Pres. of Morgan College, Hillen Road, announced conditional gift of \$50,000 by General Education Board; Dr. Chas. W. Baldwin,

is chmn. of campaign for \$500,000; funds to be applied to men's dormitory and other buildings including chapel.

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., opened bids for addition to Pimlico School, Pimlico Road and Thorndale Ave.; Charles L. Stockhausen Co., National Marine Bank Bldg., low bidder at \$244,948.\*

Md., Baltimore—St. Anthony Roman Catholic Church, Rev. J. J. Knell, Franklin Ave., Gardenville, contemplates erecting \$180,000, 3-story and basement, 110x200 ft., stone parochial school on Franklin Ave. near Belair Road; F. J. Gomes, Archt., 414 St. Paul St., taking bids on separate contracts.

Md., Frederick—Frederick County Board of Education, Dr. William C. Johnson, Pres., is considering plans and specifications by Capt. A. A. Hileman, for 3-room schools at Salillasville and Kreagerstown and 2-room building at Lewistown; 1-story, brick, wood floors, concrete foundation, slag roofs, hollow tile, steel sash and trim; also plans by P. A. Beatty for addition to school at Middletown.

Md., Frederick—Maryland State School for Deaf, Board of Visitors, Dr. Bernard C. Steiner, Pres., Baltimore; Ernest Helfenstein, Sec., Frederick, tentatively accepted plans by Capt. A. A. Hileman, for new trades building and gymnasium; appropriation of \$50,000 voted by State Legislature; work to start in early spring.

Miss., Gulfport—School Board, Mr. Brown, Supt., selected Shaw & Woleben to prepare plans for new school building to replace Central Ward School, recently destroyed by fire.

Miss., Hazlehurst—Prof. W. H. Holtclaw, of Utica Institute and College, in West Copiah, announced plans for rebuilding recently burned administration building.

Miss., Mize—Smith County Commissioners, Raleigh, have plans and specifications in progress and will call for bids immediately for replacing administration building and dormitory at Smith County Agricultural High School, recently destroyed by fire.

Mo., Columbia—University of Missouri has completed drive for funds for erecting memorial stadium seating 65,000; construction to start next spring.

Mo., Harrisonville—Board of Education, D. C. Barnett, Clerk, has plans in progress by C. A. Smith, Finance Bldg., Kansas City, for \$67,500, 2-story, brick high school building.

Mo., Jefferson City—Lincoln University, N. B. Young, Pres., is reported to contemplate erecting buildings to exceed \$150,000.

Mo., Liberty—William Jewell College, Dr. H. C. Wayman, Pres., announced plans for 3 additions to cost \$300,000; contribution of \$100,000 offered toward girls' dormitory; plans \$150,000 gymnasium and will begin work at once on \$50,000 chapel building.\*

Mo., Springfield—Visual Educational Dept. of Public School, care Miss Hattir E. Reich, is interested in erection of building on Senior High School property, to be designated as World War Memorial Auditorium and Gymnasium.

Mo., Springfield—Board of Education will receive bids at office Sec. until December 20 for completion of Pipkin Junior High School; separate bids on plumbing, heating and ventilating; plans may be obtained from Earl Hawkins & Co., Archts., 00 McDaniel Bldg.

N. C., Cary—Wake County Board of Public Instruction, John C. Lockhart, Supt., opens bids this week for erecting gymnasium building at Cary High School; Frank B. Simpson, Archt., 110 E. Lane St., both Raleigh.

N. C., Kinston—Lenoir County Board of Education, Prof. Ernest Samms, Supt., contemplates erecting \$35,000, brick school building at Woodington, \$50,000, brick school at Deep Run and \$40,000 addition to Lagrange school; built-up roofs.

N. C., Raleigh—State College of Agriculture & Engineering Building Committee, Robert N. Page, Acting Chmn., rejected all bids for erecting Animal Industry Building; will be refuged by contractors who bid at first, noted Nov. 13; Hobert Upjohn, Archt., Grand Central Terminal, Room 5952, New York City.\*

N. C., Raleigh—State College Board of Trustees Executive Committee, will expend \$10,000 for equipment for development of ceramics.

N. C., Rocky Mount—School Board is considering building program involving about \$500,000 and calling for construction of high school, annex to East School and enlarged facilities for colored schools.

N. C., Winston-Salem—Board of Education let contract for grading work to Powell Paving Co., Wachovia Bank Bldg., for proposed 65x170 ft. high school gymnasium to overlook Hanes Park; basketball and volleyball court, shower baths, dressing rooms, etc.; work will probably start next spring or summer.

Okla., Bartlesville—Board of Education, F. E. Thurman, Sec., will open bids Dec. 22, for \$290,000 High School building; separate proposals on heating, plumbing, ventilating, electric wiring and lockers; J. H. Felt & Co., Archts., 802 Grand Ave. Temple, Kansas City.\*

Okla., Oklahoma City—Oklahoma Baptist University contemplates \$500,000 building and endorsement fund campaign.

Okla., Taloga—Board of Education opens bids this week for constructing high school auditorium and community building.

Okla., Tulsa—Board of Education opened bids for erecting Springdale school; all bids will probably be rejected.

S. C., Salters—Trustees of Salters School opens bids this week for \$11,000, 2-story, brick and tile, 75x58-ft. school building; pine floors, brick foundation, tin roof; Hay Harrington, Archt., Kingstree.\*

Tenn., Chattanooga—SS. Peter and Paul Catholic Church, Father Francis T. Sullivan, has plans by Clarence T. Jones, James Bldg., for school building on East Eighth St. to cost between \$200,000 and \$250,000.\*

Tenn., Memphis—Trustees of University of Tennessee have purchased site and contemplate erecting additional building to cost about \$300,000; will ask appropriation at next session of legislature.

Tenn., Memphis—Shelby County Board of Education Building Committee is considering building program for county schools.

Tenn., Nashville—Board of Education, H. C. Weber, Supt., will erect 1-story brick annexes to Pearl High and Howard Grammar schools; \$10,000 and \$9000.

Tenn., Nashville—Fisk University, Dr. F. A. McKenzie, Pres., contemplates erecting 4 recitation halls, 2 dormitories, gymnasium, administration building, etc., reported to cost \$2,000,000; Henry C. Hibbs, Archt., 4th & 1st National Bank Bldg., advises: "No working drawings made."

Tex., Archer City—Archer City Independent School District voted \$75,000 bonds for new school building; address Board of Trustees.

Tex., Ballinger—Town will vote Dec. 18 on \$100,000 bonds for new High School building; address Board of Education.\*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



Tex., Beaumont—L. J. Dimmitt, athletic director at public schools, has plans under way to provide field and build stadium costing \$25,000.

Tex., Crawford—School Board contemplates \$40,000 bond election for new school building.

Va., Blackburg—Virginia Polytechnic Institute will have plans and specifications by Carneal & Johnston, Va. Ry. & Power Bldg., Richmond, ready for general contract bids about Jan. 1st, for World War Memorial Hall to cost from \$200,000 to \$250,000.\*

Va., Norfolk—School Board contemplates purchasing site in Seventh Ward for proposed 16-room building; plans to start work in fall, 1925.

Va., Richmond—Henrico County Board of Education approved plans by Carneal & Johnston, Virginia Ry. & Power Bldg., for additions and alterations to 5 schools, to cost about \$181,000; plans consist of addition to Dumberton School containing 12 rooms and auditorium to seat 600, present building, with exception of south wing, will be demolished, stucco finish exterior; 7-room addition to Glen Allen school and auditorium to seat 600; Longdale building will be converted into auditorium and 6-room building constructed; 6-room and auditorium at Brook Hill; building at Laurel will be remodeled and converted.

W. Va., Charleston—Board of Education of Charleston Independent School District, E. A. Babcock, Sec., P. O. Box 935, will receive bids until Dec. 29 for 223x273-ft., 3-story and basement Senior High School building; plans and specifications may be obtained from Warne, Tucker & Patteson, Archts., Masonic Temple Bldg.; separate bids on heating, plumbing and wiring.

W. Va., London—Cabin Creek District Board of Education, J. W. Calvert, Chelyan, Pres., will soon sell \$55,000 bonds for erecting colored high school building.

W. Va., Morgantown—Delta Tau Delta Fraternity, care Brooks S. Hutchinson, has plans by Jones & Nazum, 117 Adams St., Fairmont, for fraternity house.

### Stores

Ala., Birmingham—Oster Brothers Furniture Co., 2020 Third Ave., Philip Oster, Sec. Treas. and Gen. Mgr., has plans in progress by H. B. Wheelock for 6-story, reinforced concrete, 75x140 ft. building at 1912-14-16 Third Ave., to cost about \$2,000,000; work will start in fall.

Ark., Fort Smith—J. W. Jenkins Music Co., 814 Garrison St., has leased Til Shaw building and will remodel.

Ark., Little Rock—M. A. Stone, 1424 Center St., has plans by John P. Almand, Boyle Bldg., for \$15,000, 1-story, 120x30-ft. store building, Main and 15th Sts.

Fla., Miami—L. T. Cooper Interests, Professional Bldg., plans erection of 1-story, 82x60 ft. commercial building at S. W. cor. Northeast Second Ave. and 12th St.

Fla., Sarasota—Dr. Joseph Halton is reported to erect 10 stores with flats above on 12th St. near railroad.

Fla., West Palm Beach—Golden Gate Development Co., G. W. Bingham, Pres., will erect number of business buildings in connection with development, Palm Beach county, opposite St. Lucie Inlet. (See Buildings Proposed—Dwellings.)

Fla., Winter Haven—Frank J. Senn has plans for \$50,000, 240x100 ft. business block on South Sixth St. and Laurel Ave.; eight 30-ft. store rooms with 100-ft. depth; Spanish design.

Ky., Hazard—Billie Baker plans to erect \$40,000 business block on High St.; contract Jan. 1.

Ky., Hazard—John Robinson will construct store building on Main St.; contract within 2 weeks.

Ky., Louisville—S. Lipnick has permit for remodeling Bourne & Bond store building for \$15,000.

La., DeQuincy—P. E. Hammond will call for bids this week for 1-story, 30x100 ft., face brick store building; concrete floors, plate glass, Barrett roof, plaster, plumbing and electric wiring; F. W. Steinman & Son, Archts., 516 Kyle Bldg., Beaumont, Tex.

La., New Orleans—Weiss & Dreyfous, Archts., Maison Blanche Bldg., selected to prepare plans for \$25,000 stores and apartment building to replace residence at 829-31 Baronne St.

La., Shreveport—J. R. Herndon will erect \$26,000, 2-story, brick and frame store and apartment building at 2425-31 Southern St.

Md., Baltimore—Hochschild, Kohn & Co., Max Hochschild and Brenno Kohn, has plans in progress by Jos. Evans Sperry, Calvert Bldg., for \$2,000,000, 6 or 7-story, brick, stone and steel department store on property bounded by Howard, Center, Franklin Sts. and Park Ave.; 380 ft. on Howard St. and Park Ave. and 363 ft. on Franklin and Center Sts.; C. L. Reader (probably), Mech. Engr., 916 N. Charles St.; Herman F. Doleman, Struc. Engr., 507 N. Charles St.

Miss., Jackson—Lamar Life Insurance Co., 212 E. Capitol St., will erect 1-story, terra cotta, 40x120 ft. building on Capitol St.

Miss., Jackson—J. C. McGee, 720 Arlington Ave., purchased property on East Capitol St. and contemplates extensive improvements.

Miss., Jackson—R. E. Kennington will erect 6-story and basement, 43x130 ft., fireproof, concrete addition; will let contract about January 15 for building and equipment, also changes in present structure; Underwood Contracting Corp., Louisiana Bldg., New Orleans, has contract for foundation; Sanguinet, Staats & Hedrick, First National Bank Bldg., Archts., Fort Worth.\*

Mo., Independence—F. W. Woolworth Co., Pierce Bldg., will erect \$25,000, 2-story and basement, 27.6x148.9 ft., brick and wood joist store building at 114 W. Maple St.; e. g. y. p. floors, composition roof, concrete foundation, metal ceilings, steel sash and trim; Otis Elevator Co., 2301 Locust St., both St. Louis, elevator; company's architect.\*

Mo., Kansas City—F. C. Gunn, Archt., 1108 Centennial Bldg., prepared plans for remodeling space formerly occupied by Continental Nat'l. Bank, S. W. cor Tenth and Walnut Sts., into store; \$40,000; will lower floor, install plate glass fronts, remove vaults, etc.; Albert Schoenberg, 1121 Mannheim Rd., lease agent.

Mo., Kansas City—Angelo Girard, 4302 Banton Blvd., contemplates erecting 1-story and basement, 34x130-ft., brick, 3-story building at 31st and Wyandotte Sts.; Archt. not selected; mature early spring, 1925.

Mo., St. Louis—J. J. Steffan, 2637 Minnesota Ave., has plans in progress by Wedemeyer & Nelson, Wainwright Bldg., for \$150,000, 1 and 3 story, 150x120 ft., brick building at Southwood and LeMunn Sts.; 5 stores, apartments and garage.

N. C., Greensboro—C. N. Herndon, 1109 W. Market St., has permit for \$15,000, brick store and apartment building.

N. C., Wilson—H. W. Abbott has permit for \$12,000 store building on E. Nash St.

Tenn., Chattanooga—C. P. Embrey has leased store at 616 Market St. and will remodel front, refinish and redecorate interior, etc.

Tenn., Memphis—Dave and Henry Hall, owners of Oak Hall clothing store at 55 North Main St., will start remodeling after Jan. 1st.; Welch-Wilmarth, Grand Rapids, Mich., has contract for outfitting; Jones & Furbringer, Archts., Praetorian Bldg.

Tenn., Nashville—Joe Anderson purchased Market St. half of building, and will make improvements to cost from \$15,000 to \$20,000; will add third floor later.

Tenn., Nashville—Mrs. Anna J. Goodall, 1514 Compton Ave., will rebuild store building recently damaged by fire.

Tex., El Paso—W. T. Grant & Co., 28 W. 23d St., New York City, has leased building at Mesa Ave. and Texas St. and will remodel.

Tex., El Paso—S. H. Kress & Co., 211 Mesa Ave., C. C. Smith, building supt., has plans in progress and will soon let contract for remodeling.

Tex., Dallas—Trustees of City National Bank, owners of 2-story building at 1603 Commerce St. recently leased to Remington Typewriter Co., will remodel at cost of \$12,000.

Tex., Houston—H. Henke will rebuild building at Preston Ave. and Travis St. recently damaged by fire; \$10,000, 2-stories, brick.

Tex., Houston—B. A. Riesner, 61 Young St., has permit for \$18,900, 1-story and basement, reinforced concrete, brick and hollow tile Riesner Building on Commerce Ave.

Tex., Kenedy—H. Garrison has plans in progress by Beverly Spillman, Alamo Bank Bldg., San Antonio, for 1-story, brick and hollow tile store building.

Tex., Laredo—August Richter is receiving bids for 2-story, brick and reinforced concrete, \$40,000 addition to department store; L. Harrington & Co., Archts., Houston Bldg., San Antonio.\*

Tex., San Antonio—Smith Bros. Distributing Co., 1334 S. Flores St., will erect \$16,000, 1-story store building on Valliba St.

Tex., San Antonio—August Herff & Co., Archts., San Antonio Loan Bldg., preparing plans for remodeling first floor Angelus Hotel, S. Alamo and E. Commerce Sts., to be used as store; \$10,000.

### Theatres

Fla., St. Petersburg—Gus McCune of New York City, care Wm. Lampe, 661 Central Ave., St. Petersburg, is reported to contemplate erecting combination theater, store building, with 1 or 2 floors of offices and apartments, to cost about \$1,000,000; contemplates exact duplicate of structure in Tampa.

Fla., Tampa—See Buildings Proposed—Theaters—Fla., St. Petersburg.

Mo., St. Louis—Preston J. Bradshaw, Archt., International Life Bldg., will complete plans this week for airdome and shop building, West End Lyric, Taylor Ave. and Delmar Blvd.; \$200,000; contain 11 shops; Spanish design, stucco with tile roofs and parapets.

Mo., St. Louis—John F. McDermott, Central National Bank Bldg., purchased property at Hodiamont and Gambleton Aves., and contemplates erecting 3-story, fireproof theater and office building.

N. C., Winston-Salem—Alex Daye, 123 S. Broad St., announced that work of repairing Ideal Theater, 411 N. Liberty St., recently damaged by fire, will start immediately; leased by Southern Amusement Co.

W. Va., Huntington—B. F. Keith Theater

interests, 1564 Broadway, New York City, is reported to contemplate erecting theater to seat about 2500 people.

### Warehouses

Fla., Jacksonville—Baker & Holmes Co., Riverside Viaduct, selected M. C. Greeley, 111 W. Adams St., to prepare plans for \$25,000 warehouse.

Fla., Miami—City, Ernest Cotton, Director of Public Service, will call election (date not set) on \$1,500,000 bonds including \$400,000 for harbor and warehouse facilities.

Md., Baltimore—Chaudron & Co., 1112 Cathedral St., is taking bids for converting building at 68 E. Lafayette Ave., into salesroom and warehouse; \$20,000; Buckler & Fenhagen, Archts., 325 N. Charles St.

Md., Baltimore—Howard W. Motshman, 234 North Carey St., will erect two 1-story storage warehouses in rear of 218-22 N. Carey St.

Tex., Beaumont—Gordon-Sewall Wholesale Grocery Co., 102 San Jacinto St., Houston, contemplates erecting branch house, probably at Laurel and Magnolia Sts.

Church South, Dr. Walton Patton interested, let contract at \$156,000 to Jewell & Riddle, Sanford, to erect building; Atwood & Nash, Inc., Chapel Hill, and Jas. Gamble Rogers, 367 Lexington Ave., New York City, Archts.\*

N. C., Lawndale—New Bethel Baptist Church, Rev. Jno. W. Suttle, Pastor, let contract at \$8000 to J. W. Branton, Shelby, for brick veneer building; one story and basement, main auditorium 34x64 ft., brick foundation, concrete floors, tile roof, furnishings, equipment, etc., \$3500; contractor desires sub-bids on accordion doors, 7 racks, 4 hangers, etc.\*

Tex., Del Rio—First Baptist Church let contract at \$39,547 to W. C. Perry, Bedell Bldg., San Antonio, for 2-story, brick and hollow tile building, 100x90 ft., cement and pine floors, steel sash and trim, composition roof, ventilators; Will N. Noonan, Archt., Moore Bldg., San Antonio; excavation completed.\*

Tex., San Antonio—St. Paul's E. L. Church, Rev. C. Falksken, Pastor, 106 Rosenborough St., let contract at \$12,900 to Moeller & Wellbacher to erect building at S. Presa and Rosenborough Sts.; brick, 30x64 ft.; edge grain pine floors, reinforced concrete foundation, composition shingle roof, hollow and interior tile; Richard Vander Straten, Archt., 603 Travis Bldg.\*

### City and County

Fla., Tampa—Jail—Hillsborough County, Chas. T. Friend, Chmn., Board of Commrs., will erect brick, steel and concrete jail; cost, with furnishings and equipment, \$353,000, 3 and 4 stories, 120x100 ft., concrete and adamantine floors, concrete foundation, 20-yr. Barrett roof, hollow and interior tile, metal doors, vaults, vault lights, ventilators, steel sash and trim, wire glass, ornamental terra cotta; Fred J. James, Archt.-Constr. supervisor, Citizens Bank Bldg.; J. M. Lawton & Co., Florence, S. C., gen. contr.; cell work, Pauly Jail Building Co., 2215 DeKalb St., St. Louis, Mo.; plumbing and Dunham system of vacuum heat, R. T. Joughin & Co., 1502 Franklin St.\*

Tex., Athens—Jail—Lee R. Doughty, 320 E. Ninth St., Dallas, gen. contr. for \$75,000 jail, desires sub-bids on 1 dumb waiter; heating to Kinnison Bros., 312 N. Austin St., Dallas; electric work and plumbing to J. L. Harlan; jail work to Pauly Jail Building Co., 2215 De Kalb St., St. Louis, Mo.; structure 2 stories, 92x42 ft., concrete and terrazzo floors, hollow and interior tile, ventilators, steel sash and trim, wire glass; H. A. Overbeck, Archts., Melba Bldg., Dallas.\*

### Dwellings

Ark., Pine Bluff—McGehee Realty Co., 2400 W. Second St., will erect four additional dwellings in Fanny Brunson addition; three and four rooms; Pine Bluff Lumber Co., 2400 W. Second St., millwork and Flexatle roofing; Standard Paint Co., 519 Main St., paint and paper; Pine Bluff Brick Co., 300 State St., brick, lime and cement; owner builds.

Fla., Boynton—C. C. Miller of Rainbow Nurseries, on N. Dixie Highway, let contract to L. H. Walker, Delray, for \$11,000 Spanish type bungalow.

Fla., Bradenton—Edwin C. Barnes is erecting foundation of \$12,000 Spanish type residence, Palma Sola Park; hollow tile and stucco, 2 stories, irregular size, pine and oak floors, concrete foundation, tile roof; J. H. Johnson, Archt.; T. W. Hullinger & Son, Contrs.

Fla., Jacksonville—George R. Mason has started construction of three dwellings in Avondale, two on 15th St. and two on Gilmore St.; cost \$5000 to \$8500 each.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Tex., Amarillo—Masonic Temple Assn., H. A. Nobles, Pres., let contract for enclosing proposed building, including erection of walls, floors and roof; 3 stories and basement. 80x140-ft., reinforced concrete; basement completed; cost of complete structure, \$200,000; contemplates awarding contract for interior finish of this building, and erection of annex, 40x140-ft., 1 story, cost \$75,000 additional; Herbert M. Greene Co., Archt., Dallas. (Fred Bone Construction Co., previously noted having contract for first building.)\*

Tex., Breckenridge—Young Men's Christian Assn. let contract to Quisile & Andrews, Cotton Exchange Bldg., Fort Worth, to erect \$100,000 building; 3 stories, brick; excavation completed; W. G. Clarkson, Archt., First National Bank Bldg., Fort Worth; Strawbridge Electric Co., Breckenridge, electric work; Beach & Co., 300 S. Main St., Fort Worth, heating and plumbing.\*

Va., Clarendon—Arlington Hall Assn., C. Eugene Doyle, Pres., let contract to W. L. Martin, Alexandria, for Arlington Lodge No. 193 and Clarendon Rebekah Lodge at Lawton Ave. and Wilson Blvd.; 2 stories, 48x80 ft., cement floors, concrete foundation, slag roof, hollow tile, metal ceilings, steel sash and trim, wire glass; private plans.\*

Va., Richmond—Order of Eastern Star of Virginia let at \$54,445 contract to W. Ragland & Sons, Merchants National Bank Bldg., for 3-story fireproof building at Chamberlayne Ave. and Brookland Park Blvd., Ginter Park.

### Bank and Office

Fla., Miami—Central Arcade Properties, Inc., John Seybold, Pres., N. W. Eighth Ave., let contract to John B. Orr to erect 8-story fireproof addition to Central Arcade; cost \$1,000,000, 500 offices, 20 shops on gallery floor, 32 stores on first floor, basement for cafe and restaurant, structural steel construction; Kiehnel & Elliott, Archts., Central Arcade Bldg.; E. A. Stuhman, Engr.

Fla., Sarasota—First Bank & Trust Co. let contract at \$25,000 to Georgia Show Case Co., Atlanta, to install fixtures; vault supplied by Diebold Safe & Lock Co., Canton, Ohio, at cost of \$15,000.

Fla., St. Petersburg—Gulf Guaranteed Mortgage Bond Co., Wm. P. Bird, Vice-Pres., has completed first story of 7-story office building, First Ave., N., and 7th St.; cost about \$100,000 when complete, 86x127-ft., steel, concrete and brick, concrete floors and foundation, glass and composition roof, hollow and interior tile, metal doors, vault lights, ventilators, mail chutes, ornamental terra cotta, steel sash and trim, wire glass; Avery & Wolport, Archts., Roser Bldg.; U. S. Construction Co., contract on cost plus basis; heating, electric work and plumbing not let; owner desires sub-bids (to be opened

about March 1) on vaults, 2 elevators, office partitions, etc.

Mo., Kansas City—E. Shukert, 4570 Warwick St., let contract to erect 6-story addition to 4-story Argyle Building, 12th and McGee Sts.; 98x132 ft., structural steel, reinforced concrete floor slabs, terra cotta and brick, 3 elevators; cost \$500,000; Keene & Simpson, Archts., 1005 Land Bank Bldg.; Bickel Co., 902 A. & R. Bldg., Kansas City, Contrs.\*

Tenn., Knoxville—Commercial Bank & Trust Co., R. L. Huff, V.-P., let following contracts for erection of front and remodeling of building at 315 Wall Ave. for banking quarters: V. L. Nicholson, general contract, at \$34,800; Engert-Long Plumbing Co., heating and plumbing; Warner Service Co., electric wiring and fixtures; Knoxville Lumber & Mfg. Co., millwork and fixtures; R. S. Freer, painting; plans by Manley, Young & Meyer, Church and Gay Sts., include 2 stories, 26x140 ft., tile and marble floors, Carey roof, metal ceilings, ornamental terra cotta, steel sash and trim, wire glass, ventilators, vaults; all equipment and furnishings purchased.\*

Tex., Dallas—York Safe & Lock Co., York, Pa., has contract to install vaults in 22-story structure under construction for Republic Building Co. by Ingle Construction Co., 504 Swiss St.; vaults and fittings will weigh about 100 tons; C. D. Hill & Co., Archts., Central Bank Bldg.; Wirt Davis, Chmn. Bldg. Comm., P. O. Box 28.\*

Tex., Littlefield—Littlefield State Bank let contract to Rice Construction Co. for erection of 3-story building; third floor for Masonic Lodge.

### Churches

Ga., Atlanta—Central Presbyterian Church, J. E. Kirk, Chmn. Bldg. Comm., 60 Druid Place, let contract at \$96,781, to Geo. A. Clayton Co., Gould Bldg., for \$100,000, 5-story, 47x114-ft., steel and concrete building; metal ceilings, hardwood and concrete floors, interior and hollow tile, ornamental terra cotta, steel sash and trim, ventilators, composition roof; Dougherty & Gardner, Archts., Stahlman Bldg., Nashville, Tenn.\*

La., Shreveport—Elliott Brothers Electric Co., 215 Milam St., has contract at \$6500 for complete electrical equipment for \$300,000 First Presbyterian Church for which Glassell-Wilson Co., 206 Sinclair Bldg., has gen. contr.; Jones, Roessle, Olschner & Wiener, Archts., Ardis Bldg., Shreveport, and 1001 Maison Blanche Bldg., New Orleans.

Mo., St. Louis—St. Aloysius Roman Catholic Church, Rev. Francis Brand, 5608 Magnolia Ave., let contract to C. W. Schuler & Co., 2838 Texas Ave., for \$100,000, two-story, 46x75 ft., brick and stone building at Magnolia and January Aves.; Ludewig & Dreisoerner, Archts., 3445 Humphrey St.

N. C., Chapel Hill—Methodist Episcopal



Fla., Jacksonville—Better Homes Co. will erect \$9000 frame dwelling, St. Johns St. near Edgewood St., and \$12,000 brick and tile dwelling, Riverside St. near Edgewood St.; both 2 stories; owner builds.

Fla., Lakeland—Marvin & Ford are erecting number of dwellings in Shore Acres; W. L. Seward Construction Co., Bartow, contract for 100,000 pieces of tile.

Fla., Miami—Clifford C. Cole, 6720 Bennett Ave., of Chicago, let contract to Colby & Son to erect \$100,000 residence at Silver Bluff; Italian type, cast stone, Cuban tile roof, wrought iron balconies, tile or stone floors on first floor, carved mantel, cypress beam ceiling in living room, rough texture plaster, stone staircase, 2-automobile garage and servants' quarters; Robertson & Patterson, Archts., Calumet Bldg.

Fla., Miami—August Geiger, Calumet Bldg., let contract for \$35,000 residence, Ocean Drive, Golden Beach, to C. D. Bird; stone floor, carved stone mantel and pecky cypress ceiling in living room; stone columns, 2 baths on second floor; plans by owner.\*

Fla., Sarasota—Mrs. Laura Brainard, Worcester, Mass., let contract to erect residence in Hyde Park Terrace.

Fla., Tampa—D. P. Davis Properties, Warner Bldg., let contract to G. H. Cooper, 2009 Dekle Ave., Tampa, to erect 6 dwellings on Davis Island costing \$10,000 to \$15,000; Spanish and Italian architecture, stucco and hollow tile; Martin S. Hampton, Archt., Congress Bldg., Miami; also let contract to erect temporary bus terminal and administration building on Davis Blvd. in Hyde Park section of islands; M. Leo Elliott, Archt., Citizens' Bank Bldg., Tampa.

Fla., Vero—John A. Meyer has begun construction of 7-room stucco bungalow; concrete floors.

Ga., Atlanta—A. C. Burdett, Candler Bldg., let contract to R. E. Nicholes for \$17,500 frame residence; composition roof.

La., New Orleans—John Davidson, 215 S. St. Patrick St., has contract to erect double 2-story, \$10,650 dwelling at Elk and Lopez Sts.; taking sub-bids.

La., New Orleans—Lino Delarosa, 1680 Agriculture St., has contract to erect double 2-story dwelling at Claiborne and Robertson Sts.; cost \$10,000.

Md., Baltimore—John J. Bandel, 25 S. Calvert St., has plans by and let contract to J. S. Downing, 2600 Greenmount Ave., to erect two-story brick dwelling and garage on south side Suffolk St. east of Southway; 30x30 and 10x20 ft., slate roofs, hot water heat, cost \$10,000.

Md., Baltimore—Geo. Wicks has plans by F. E. Beall, 306 St. Paul St., for erection of \$10,000, 2-story brick dwelling and garage, 3102 Liberty Heights Ave.; 40x40 and 20x18 ft., slate roofs, hot water heat; owner builds.

Md., Baltimore—Louis Farber, 2827 Hillsdale Ave., will erect 40 two-story brick dwellings, S. side of new side south of Vogt Ave. between Park Heights Ave. and Old Pimlico Rd.; 17x32 ft., slag roofs, steam heat; Stanislaus Russell, Archt., 11 E. Lexington St.; owner builds.

Md., Baltimore—Raymond P. Hennessy has plans by and let contract to James C. Webster & Sons for \$15,800, 2½-story, frame dwelling and garage, north side Southern Ave., east of Elrose Ave.; dwelling, 28x33 ft., garage 20x18 ft., slate roofs, hot-water heat.

Md., Baltimore—Jos. Fiori, 27 Locust St., Curtis Bay, will erect 4 dwellings, N. side Edgecourt Circle W. of Finney Ave.; 2 stories, 17x31 ft., steam heat; total cost \$20,-

000; J. E. Moxley, Jr., 20 E. Lexington St.; owner builds.\*

Md., Baltimore—Sherman T. Holter will erect \$10,000 frame dwelling and garage, E. side Edgevale Rd. N. of Deepdene Rd.; 2½ stories, 40x30 ft. and 18x20 ft., slate roof, hot water heat; E. Wolff, 3d, Archt.; Omega Construction Co., Contr.

Mo., Clayton (Ind. Branch St. Louis)—Dr. L. A. Will, 20 Polo Drive, will erect \$14,000 residence, 509 W. Polo Drive; 2 stories and basement, 42x30 ft., brick and tile; J. T. Beatty, Contr., 5627 Terry St. St. Louis.

Mo., Clayton (Ind. Branch St. Louis)—Woodson K. Woods, Swan Ave., Webster Groves, let contract for \$70,000 residence and garage, W. Brentmawr Park; 2 stories and basement, 50x120 ft., brick and stucco; Moritz & Young, Archts., Chemical Bldg.; Sauerbrun Construction Co., Contr., Century Bldg., both St. Louis.

Mo., Clayton (Ind. Branch St. Louis) Clark R. Gamble, 6803 Kingsbury Ave., will erect \$30,000 residence, Wydown Terrace; 2 stories and basement, 50x40 ft., stucco on tile; Moritz & Young, Archts., Chemical Bldg.; Sauerbrun Construction Co., Contr., Century Bldg., both St. Louis.

Mo., Clayton (Sta. St. Louis)—Jessie T. Friday, Title Guaranty Bldg., let contract to J. A. Prah, 5521 S. Grand St., St. Louis, for \$19,000, 44x32 ft. brick dwelling in block three, Moorlands Park.

Mo., Jefferson City—Jas. A. Houchin Realty Co., M. H. Hobbs, Pres., let contract to A. Walls to erect 15 or 20 frame, brick and stucco dwellings in connection with development of 40-acre subdivision; cost \$50,000, including streets, dwellings, septic tank, etc.; Jas. A. Houchin, Archt., 506 International Life Bldg., St. Louis.

Mo., Kansas City—Paul Lange, 4200 Troost Ave., let contract to J. C. Nichols Co., Meyer Blvd. and Ward Parkway, for \$20,000, two-story and basement, 70x31 ft., stucco residence at 838 W. 58th St.; E. W. Tanner, Archt., Ward Parkway and Meyer Blvd.

Mo., Kansas City—Franklin S. Riley, 4600 Warwick St., let contract to R. L. Falkenberg Co., 63d and Brookside Sts., for \$20,000 residence, 66th Ter. and Jefferson St.; 2 stories and basement, 31x52 ft., frame and stucco; plans by owner.

Mo., Kansas City—J. P. Duffy, 208 Producers Exchange, and H. B. Wolf will erect 4 dwellings, 67th St. near Pennsylvania Ave.; owners build.

Mo., St. Louis—Geo. W. Swarting, 5640 Bartner Ave., let contract to C. Taussig, 623 E. Swan, Webster Groves, Mo., for \$17,000 residence, Bellerive Acres; 2 stories, 45x30 ft., brick; plans by owner.

Mo., University City (Sta. St. Louis)—E. D. Campbell, 4001-A Lafayette Ave., St. Louis, let contract to J. H. Williamson, 7039 Waterman St., St. Louis, to erect \$15,000, 2½-story, 40x31 ft. brick residence at 536 Purdue Ave.; Maritz & Young, Archts., Chemical Bldg., St. Louis.

Mo., University City (Sta. St. Louis)—Lee J. Corse, 4963 Fountain Ave., let contract to J. H. Williamson, 7039 Waterman Ave., St. Louis, to erect \$12,000, 2-story, 36x24 ft. brick residence and garage at 7006 Lindell Blvd.; C. H. Dietering, Archt., 705 Olive St., St. Louis.

Mo., University City (Sta. St. Louis)—C. E. Schall, 4246 Red Bud Ave., St. Louis, let contract to Ruehle & Behle, 4275 Red Bud Ave., St. Louis, to erect \$15,000 residence at 7133 Washington Ave.; 2 stories, 34x36 ft., brick; W. P. Manske, Archt., 4935 Delmar Ave., St. Louis.

N. C., Charlotte—George FitzSimmons will erect \$11,000, 7-room brick veneer residence on E. Morehead St.; D. C. Lawhon, Contr., Monroe Rd.

N. C., Charlotte—Frank F. Jones, Realty Bldg., will erect \$10,000, 7-room brick veneer residence on Henley Place, Myers Park; D. C. Lawhon, Contr., Monroe Rd.

N. C., Greensboro—A. K. Moore Realty Co., A. K. Moore, Pres., 116 W. Market St., will erect number of dwellings in Sunset Hills in addition to 15 already under construction at cost of \$7500 to \$35,000 each; plans and construction by owner.\*

S. C., Fingerville—Fiske-Carter Construction Co., Spartanburg, let contract to Morgan Bar Electric Co., Greenville, for electrical work in connection with 24 dwellings to be erected by Franklin Process Co.

S. C., Greenville—John Lipscomb will erect 2-story residence, Bennett St.; J. Archie Willis & Co., Contrs., Montelth Apt.

S. C., Greenville—Virginia Manufacturing Co. let contract to J. Archie Willis & Co., Montelth Apt., for 10 dwellings at Fork Shoals.

Tex., San Antonio—B. G. Irish, 401 Navarro St., let contract to John Westerhoff, 524 School St., to erect \$15,000, 2-story, brick and concrete residence at Brady St. and Ellsmere place.

Tex., Waelder—J. C. Miller let contract to W. H. Holmes, 1027 Denver Blvd., San Antonio, to erect \$25,000 brick, tile and concrete residence; Briscoe & Dixon, Archts., Carter Bldg., Houston.

Va., Richmond—Saml. H. Baker, 6 North Boulevard, let contract to Jas. Fox & Sons, for 15 frame and stucco dwellings, 800-20 W. 29th St.; 2 stories and basement, 24x28 ft., hardwood floors, brick foundation, slate roof; plumbing to Kritzer & Harman; heating and lighting not let; plans by owner.\*

Va., Richmond—Davis Bros. will erect 4 dwellings in 2400 block Lakeview Ave.; cost \$23,500 each; Spanish, Italian, English Colonial and Georgia Colonial types, brick, stucco, tile roof, 2 stories, 8 rooms and 2 baths, sleeping porch and breakfast room, servants' quarters and double garage; plans and construction by owners.

W. Va., Martinsburg—L. H. Staples is erecting nine 6-room residences on W. Race St.

## Government and State

Tex., Corsicana—Mechanical Building—State Board of Control, S. B. Cowell, Chmn., Austin, let contract at \$12,500 to Morgan-Dickson Lumber Co. for mechanical building at State Orphans' Home.

## Hospitals, Sanitariums, Etc.

Ark., Little Rock—Missouri Pacific R. R., H. J. Mohler, Pres., Hospital Board, St. Louis, let contract to Bracy Brothers Hardware Co. for kitchen equipment for new \$600,000 hospital on Lincoln Ave.\*

Ga., Atlanta—Atlanta Childs Home, Hightown Rd., let contract at about \$30,000 to Geo. A. Clayton Co., Bona Allen Bldg., for contagious ward; frame, composition roof; A. Ten Eyck Brown, Archt., Forsyth Bldg.

La., Shreveport—Drs. J. C. Willis, Sr., Merchants Bldg., J. C. Willis, Jr., and others, let contract for \$60,000 clinic, Margaret Pl., to Tom Green, 2720 Virginia Ave.; 3 stories, 64x76 ft., brick; J. P. Annan, Archt., 1319 Fairfield Ave.\*

Md., Baltimore—St. Joseph's Hospital let contract to Frainle Bros. & Haigley, 19 W. Franklin St., for alterations to building at Caroline and Oliver Sts., including new entrance, changing partitions in hall and vesti-

bule and erecting elevator shaft; cost \$10,000.

### Hotels and Apartments

Ark., Pine Bluff—Dr. O. G. Blackwell, 1414 Olive St. let contract to J. H. Culpepper, 1712 Beech St., duplex apartment building; Standard Lumber Co. will furnish lumber and millwork.

Fla., Miami—Theo. Randmetz, Contr., Route 1, is erecting for Dorothea Simmons, P. O. Box 1002, a \$70,000, 3-story, concrete and hollow tile apartment building at Ninth St. and West Ave.; 43x145 ft., pine and concrete floors, piles and concrete foundation, builtup roof, interior tile, ventilators, ornamental terra cotta; E. F. Swicher, electric wiring; Chas. Miller, 104 S. W. Fourth Ave., plumbing; H. Geo. Fink, Archt., Congress Bldg.\*

Fla., Sarasota—Anthony Geiser and Wm. J. Meyers, Malden Ave., of New York city, started work on 5 duplex houses to contain 4 apartments each; will erect others with completion.

Fla., Vero—E. B. Walls, Wabasco, let contract to L. M. Newman for \$13,000, stucco, 2-story, 8-family apartment building; concrete foundation, built-up composition roof.

Fla., West Palm Beach—Daniel Downey Contr., announced plans for erecting 10-story, \$225,000, 50x53 ft., 100-room each with private bath, hotel building in rear of recently completed Downey Building on Clematis Ave.; will be known as "Alamanda" and have entrance through Downey Building.

Ga., Gainesville—Princeton Hotel started work on enlarging and improving to cost \$20,000.

Ky., Louisville—State Construction Co. of Indianapolis will erect \$100,000 apartment building at S. E. cor. Broadway and Western Parkway; 3 stories, 24 apartments; one of five proposed to be erected; address Jo Hieatt, local representative, Inter-Southern Life Bldg.

Md., Baltimore—Roland Park Apartment Co., M. A. Long, Pres., will erect 5-story, fireproof, 75-apartment building on Upland Road between Club and Woodside Roads, Roland Park, to cost \$1,000,000; ranging from bachelor suites to apartments containing 9 rooms and 2 baths, vestibule and porch; stucco and brick construction, French chateau type; Edward L. Palmer, Jr., Archt., 513 N. Charles St.; M. A. Long Co., Contrs., 17 Guilford Ave.

Md., Frederick—Hotel Frederick, Michael Croghan, Propr., is making extensive improvements, including building of 50x20-ft. store room, private rooms, garages, renovated interior, etc.; plans for 25 additional rooms, dining room and kitchen have been completed; work to start March 1.

Mo., Clayton (Ind. Sta. St. Louis)—Sam Jackoway, 1231 Washington St., will erect \$10,000, 29x53 ft., brick flat; Hamsin Construction Co., builder; D. R. Hamsin, Archt.

Mo., Clayton (Ind. Sta., St. Louis)—Ben Katz, 1231 Washington St. will erect \$10,000, brick, 29x53 ft. flat in Hi Point addition; owner is Architect and Builder.

Mo., Clayton (Ind. Sta. St. Louis)—George Manley, 3609 Humphrey, let contract to Barth Building & Real Estate Co. for \$12,000, 47x32-ft. brick flat at Hanley and Shirley Sts., Widown Forest.

Mo., St. Louis—M. E. Ludwig will erect \$10,000, 2-story, 24x55-ft. brick tenement building at 4814 Arsenal St.; tar and gravel roof, hot water heating; Harrison Construction Co., builder; D. R. Harrison, Archt.; all 5715 Delmar St.

Mo., St. Louis—Clyde S. Fisher, International Life Bldg., will erect three 2-story,

brick, 51x47 ft. tenements at 3047-4953-55 and 3101-03 Fair St.; May Building & Investment Co., Builder and Archt., 808 Chestnut St.

Mo., St. Louis—G. Wohldmann, Florissant. Mo., will erect two 2-story 25x38 ft., brick tenements at 4839-41 Penrose St.; \$13,000, composition shingle roofs, hot air heat; S. O. Schumacher, Archt., 8635 Mora Lane; owner builds.

Mo., St. Louis—C. S. Mueri, 3609 Hartford St., will erect \$15,000, 2-story, 72x76 ft., brick tenement at 5820 Alabama St.; composition roof, hot air heat; also \$1000 1-story, 28x34 ft. garage at 625 Wilmington St.; Hy. Schaumburg, Archt., 3631 Connecticut St.; owner builds.

Mo., St. Louis—Geneva Investment Co., 721 Chestnut St., will erect \$16,000, 2-story, 29x97 ft., brick tenement at 5903 Etzel; concrete roof, furnace heat; W. F. Shehan, Archt., 721 Chestnut St.; owner builds.

Mo., St. Louis—Ida C. Grant, 722 Chestnut St., will erect \$25,000, brick, 65x42-ft. tenement at 6252 Northwood St.; composition roof, steam heat; E. A. Maguire, Builder and Archt., 722 Chestnut St.

Mo., University City (Sta. St. Louis)—L. C. Darby, 5812 Cates St., will erect \$30,000, 3-story, 18-family, brick, 64x117 ft. apartment building at 727-9 and 731 Limit St.; composition roof, steam heat; Rhodes & Cook, Archt. and Builder, 6240 Delmar St.

N. C., Asheville—P. D. Moore let contract to E. J. Boyles, 23 Edwin Place, for \$30,000, frame and brick veneer, 50.9x58 ft., 3-story apartment buildings at Merrimon Ave. and Marcellus St.; hardwood floors, brick foundation, composition roof; major items to be purchased include plumbing and heating, electric wiring, Murphy beds, gas ranges and refrigerators; Contr. also Archt.\*

Tex., Marshall—C. F. Lancaster, Archt., let following contracts for remodeling Hotel Marshall, recently leased by W. H. Pethybridge; E. K. Scott, "piping and repairing plumbing fixtures, \$4193; G. O. Smith, construction of new kitchen and basement floors, \$3084; O. N. Fletcher, repainting and interior decorating, \$2300; E. E. Glass, replastering, \$2195.\*

Tex., San Antonio—Mrs. Florence D. Kelly, 326 E. Euclid Ave., let contract to G. W. Mitchell, 215 Stratford St., for \$10,000, 2-story, frame, 3-suite apartment building at 414 E. Ashby Place; private plans.

### Miscellaneous

Fla., St. Petersburg—Miller J. Huggins and Walter S. Ross let contract to Pendleton & Springer for \$15,000, 3-story building on Central Ave., between 17th and 18th Aves.

La., New Orleans—Cafeteria—Loubat Glassware & Cork Co., Ltd., 510 Bienville St., has contract for furnishing fixtures at \$25,000 for Poinsettia Cafeteria, Canal near Camp Sts.; will soon renovate; Archt. not selected.

Mo., St. Louis—Clubhouse—Missouri Athletic Assn., 407 Washington St. will expend \$10,000 for altering 11-story clubhouse; owner builds.

Tex., Fort Worth—Clubhouse—Fort Worth Club, Amos G. Carter, Pres., let contract to Bellows-McClay Construction Co., Fort Worth, 305 N. Market St., Dallas and Shreveport for 12-story, 95x200 ft. club building, on Throckmorton, from Sixth to Seventh Sts., to cost \$1,500,000; 5 lower floors to be used by Fakes & Co., 510 Houston St., furniture store; north wing to be used as offices of Fort Worth and Denver, balance club's quarters; reinforced concrete construction, faced with

granite 6 ft. above sidewalk, from this point to fifth story on Seventh and Throckmorton Sts., will be ornamental art stone, and from sixth floor to roof, rough faced buff brick; Spanish renaissance architecture; sixth floor to contain 50 offices; eleventh floor will have lounge room, library, chess room, directors' room, barber shop, men's lavatories, handball court, locker and shower rooms, billiard room, buffet grill, check room and manager's and secretary's offices; on twelfth floor will be ballroom and banquet hall, private dining rooms, ladies' clubroom, kitchen, bakery, freight room, etc.; 24x67 ft. dining room will connect ballroom and banquet hall 40x90 ft.; artesian well and refrigerating system; Sanguiet, Staats & Hedrick, Archts., First National Bank Bldg.\*

Tex., Houston—Art Museum—Houston Art League, John T. Scott, Treas., 2416 San Jacinto St., let contract to Tellepsen Construction Co., 4510 Park Drive, at \$198,500, for art museum; Wm. Ward Watkins, Archt., Scanlan Bldg.\*

### Railway Stations, Sheds, Etc.

Tex., Corsicana—J. R. Lacey Co. has contract for union station and work will start this week.

### Schools

Ala., Mobile—Wright Cement Products Co., Jackson, Miss., has contract for trim stone for \$750,000 school building.\*

Ga., Atlanta—Purchasing Committee of Board of Education let following contracts for school equipment: Dize Awning & Tent Co., shades at \$3446; John Van Range Co., cafeteria equipment at \$1571; Wright Co., 185 Peachtree St., refrigerator; Clanton & Webb, 147 Whall St., 300 opera seats and 30 bookkeeping desks at \$472.50; contracts for cabinets let to Myers-Miller, Oglesby Supply Co., 122 Whitehall St., and Sterchi Furniture Co., 7 E. Mitchell St.; Horne Desk Co., 89 N. Pryor St., 281 stools at \$295; Ivan-Allen-Marshall Co., 38 Motta St., 12 teachers' desks.

Ga., Atlanta—Agnes Scott College let contract to J. S. McCauley & Co., 286½ Peachtree St., at \$102,973 for brick and reinforced concrete gymnasium building; Edwards & Sayward, Archts., 101 Marietta St.\*

Md., Baltimore—Loyola College, Rev. Jos. McEneaney, Pres., Monument and Calvert Sts., let contract to Henry Smith & Sons Co., 115 S. Hanover St., for alumni hall and gymnasium, Charles St. Ave. and Cold Spring Lane; \$150,000; gymnasium 80x154 ft., will provide for two basketball courts, running track and spectators' gallery; hall 40x100 ft.; will have board room and offices on first floor with committee and billiard rooms above; Gothic design, fireproof, brick, stone, steel and concrete, hollow tile; Lucius R. White, Archt., Hearst Tower Bldg.; Henry Adams, Engr., Calvert Bldg.\*

Miss., Hattiesburg—Mississippi Woman's College, Dr. J. L. Johnson, Pres., let contract to J. M. Pilcher & Sons, 916 Mason St., Louisville, Ky., for installation of \$10,000 pipe organ.

Mo., St. Louis—Board of Public Service, Room 208, City Hall, let contract to John Hill Construction Co., Syndicate Trust Bldg., for school building for St. Louis Training School for Feeble-Minded, Hall Ave. and Bellefontaine Road; E. E. Christopher, Archts.; L. R. Bowen, Ch. Engr.; both City Hall.\*

N. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt., let contract to Southeastern Construction Co., 129 Brevard Court, at \$148,000 for Wilmore and Seversville school buildings; Woodside Electrical Co., 37 E. Fourth St., wiring; Tompkins-Johnson Co.,



plumbing; Louis H. Asbury, Archt., Realty plumbing; A. Z. Price, 404 S. Tryon St., heating; Louis H. Asbury, Archt., Realty tona, but contract was withdrawn.\*

N. C., Clemmons—Forsyth County Board of Education, Winston-Salem, let contract to Boyles Building Co. for \$57,992, consolidated school building; 16 rooms, 2 administration offices, library and auditorium to seat about 900; red faced brick with stone trimmings and slate roof; Northup & O'Brien, Archts., Starbuck Bldg., both Winston-Salem.

N. C., Durham—Detroit Fidelity & Surety Co., bondsmen for Byrum Construction Co., Oxford, let contract to Wikerson Construction Co., Durham, at \$16,000 for completion of addition to East Durham High School; original contract price \$35,835; Rose & Rose, Archts., 513 Trust Bldg.\*

N. C., Tar Heel—Bieden County Board of Education, Elizabethtown, let contract to Courtney Construction Co., Florence Marble Works Bldg., for school building at \$24,000; plumbing and heating, \$6000; W. D. Harper, Archt.; both Florence.

Okla., Tulsa—Board of Education, Frank E. Duncan, Pres., let contract to A. T. Hingle, 309 Mid-Continent Bldg., at \$97,600, for 2-story, brick and concrete, Mark Twain School building; cement and wood floors, concrete foundation, asphalt roof, metal ceilings, steel sash and trim, wire glass; Knowles & Green, 118 W. Third St., plumbing and heating at \$38,466; Youse Electric Co., 924 S. Main St., electrical work at \$3985; Leland I. Shumway, Archt., 725 Wright Bldg. (See Machinery Wanted—Black Board (Slate).\*)

S. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt., let contract to Palmer-Spivey Construction Co., 404 S. Tryon St., at \$157,084, for Elizabeth School; Toomey Plumbing Co., 26 E. Stonwall St., plumbing at \$7990 and heating at \$7950; Woodside Electric Co., 37 E. Fourth St., wiring at \$2892; contract for Dilworth School to J. D. Foard, at \$47,158; Toomey Plumbing Co., plumbing at \$3649; Henry Hackney, 1514 E. Seventh St., heating at \$3500; Woodside Electric Co., wiring at \$1158; contract for Fairview School to J. A. Jones Construction Co., Realty Bldg., at \$104,500; C. W. Christian Co., Myers Park, heating at \$7300; J. A. Haley, 305 W. Fifth St., plumbing at \$6562 and Woodside Electric Co., wiring at \$2038; M. R. Marsh, Latta Arcade, Archt. for Fairview and W. G. Rogers, Latonia Bldg., Archt. for Dilworth and Elizabeth Schools.\*

Tenn., Johnson City—Board of Commissioners let contract to Helms, Willis & Wheeler, Erwin, at \$56,107.70, for 3-story, brick and tile, 36.4x106.10 ft. addition to Junior High School; maple and concrete floors, Barrett roof, concrete foundation, hollow tile, steel sash and trim; A. H. Abernethy, heating

and plumbing; Bishop Electric Co., wiring and fixtures; Detroit Steel Products Co., 2250 E. Grand Blvd., Detroit, steel sash; D. R. Beeson, Archt.\*

### Stores

D. C., Washington—Eugene A. Smith, 1413 Eye St. N. W., let contract to J. I. Medley, 804 Rittenhouse St. N. W., for \$20,000, 3-story and basement, 20x66 ft., brick building to contain 2 stores, 2 offices and 4 apartments, also alterations to 2 apartments; private plans.

Fla., Bartow—George Mann started work on 1-story, 80x100 ft. building at Main and Florida Sts.; brick with stucco front; Eagle Lake Brick Co. has charge of work.

Fla., Orlando—Emil Metzinger, Liberty Place, let contract to F. A. Peppercorn, 307 E. Church St., for remodeling and enlarging building at S. E. cor. Orange Ave. and Jackson St., to include 4 store rooms and 17 offices; \$20,224; Spanish architecture.

Miss., Vicksburg—John Frank let contract to R. Howard, City Cemetery Rd., for installing new front and remodeling store building at Washington and Veto Sts.; contemplates erecting 2-story building in rear of store.

Mo., Kansas City—Frank A. Garnier, 5304 Independence Ave., let contract to C. O. Briggs, care owner, for \$10,000, 2-story and basement, 56x50 ft., brick and concrete store building, 5310 Independence Ave.; private plans.

Mo., St. Louis—Brinkmann Realty Co., 4910 Gravois St., will erect \$10,000, 2-story, 30x60 ft. store and dwelling at 5217 Gravois St.; composition gravel roof, hot water heat; owner is Builder and Archt.

Okla., Fairfax—E. B. Swift is erecting 2-story stone building, second floor to be occupied by Ancient Free and Accepted Masons and Independent Order Odd Fellows lodges.

Tenn., Nashville—A. S. Weinbaum, Courtland Apts., let contract to J. B. Regen Construction Co., 434 Deaderick St., for 3-story, brick and stucco trimmed with stone, 30-apartment building, Harding Road and Wilson Blvd.; Tisdale, Stone & Pinson, Archts., Independent Life Bldg.\*

Tex., Fort Worth—Monnig Dry Goods Co., 1302 Main St., let contract to Butcher & Sweeney, 806 Taylor St., for 3-story store building at Fifth and Throckmorton Sts.; \$300,000; Sanguinet, Staats & Hedrick, Archts.

Va., Roanoke—L. A. Armentrout, 406 Salem Ave. S. W., let contract to John C. Senter, 110 Westover Ave., for \$40,000, 2-story, brick, steel and concrete, 62x165-ft. business building at Salem Ave. and Fourth St. S. W.;

concrete floors and foundation, built-up asphalt roof, metal doors, steel sash; heating, plumbing and wiring not let; H. M. Miller, Archt., 3½ Campbell Ave. S. W.; major items to be purchased include reinforcing steel, steel sash, steam heating equipment and roofing.\*

W. Va., Moundsville—Barnette, Barker & Bonar, 607 Lafayette Ave., let contract to C. E. Baker, 1400 Third Ave., for 2-story and basement, steel and tile, 50x100 ft. business building at Sixth St. and Lafayette Ave.; steam heat, sprinkler system, electric elevator; Robert Barr has sub-contract for brick; L. D. Grubbs, Archt., Register Bldg., Wheeling, will supervise work.

### Theatres

Tenn., Morristown—Harry Sudekum, 3408 West End, Nashville, of Crescent Amusement Corp., let contract to Roy Morrison for renovating Princess Theater building.

### Warehouses

Fla., Miami—City Commissioners let contract to Virginia Bridge & Iron Co., Madison Ave., N. E., Roanoke, Va., for \$72,000, 1-story, 480x120 ft. warehouse on north pier of municipal docks; tile to height of 10 ft., remainder glass; asphalted sheet metal roof; address City Manager Wharton.

Mo., St. Louis—Wm. Walke & Co., Second and E. Grand Sts., will erect \$30,000 addition to 2-story warehouse at 161 E. Grand St.; 92x97 ft., composition roof, steam heat; A. Meyer, Archt., 1021 Central National Bank Bldg.; owner builds.

N. C., Charlotte—W. T. Heath, 306 Plaza St., and F. M. Simmons, 9 Bromley Rd., Myers Park, will erect \$25,000 concrete and steel, 64x167 ft. warehouse at Statesville Ave. and Southern railroad; T. A. McEwan, Mt. Holly, Engr.; E. R. Lee, builder.

Tenn., Memphis—R. F. Crenshaw started work on \$40,000 warehouse on Kentucky St., to be leased by Sherwin-Williams Paint Co.; E. L. Harrison, Archt., U. & P. Bank Bldg.

Tex., Lubbock—Bayliss & Hungate let contract to D. N. Leaverton, for \$12,500, 1-story, brick, 78x100 ft. warehouse; concrete floors and foundation; major items to be purchased include brick and lumber.\*

Tex., Lubbock—Panhandle Construction Co. let contract to D. N. Leaverton, for \$10,000, 52x100 ft., brick warehouse; tar and gravel roof, concrete floors and foundations.\*

Tex., San Antonio—G. A. Duerler Mfg. Co., 224 W. Commerce St., let contract to Chas. Brient for reinforced concrete, brick and steel, 48x135 ft. warehouse on Herff St.; \$17,960; August Herff & Co., Archts., San Antonio Loan Bldg.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Band Mill.**—Line Fork Lumber Co., H. H. Hensley, Bell Point, Ky.—Wants complete band mill and all necessary machinery; prefer 7 or 8-ft. mill; will consider used equipment if in good condition.

**Black Boards (Slate).**—A. T. Hingle, 309 Mid-Continent Bldg., Tulsa, Okla., has contract at \$97,600 for Mark Twain School and wants sub-bids on slate black boards and tack boards.

**Boilers.**—L. W. Goings, Pres., Century Milling Co. and Annex Mining Co., Douthat, Okla.—Wants prices on boilers.

**Brass Castings.**—Dist. Comms., Room 509 Dist. Bldg., Washington, D. C.—Will receive bids Dec. 23 to furnish brass corporation and

brass curb cocks for iron pipe used b Water Dept.

**Brass Tubing, etc.**—R. H. Crummett, Monterey, Va.—Wants small brass tubing 5/32 outside dimensions and 1/32 inside or very small brass or steel tubing; also larger brass tubing and screw fittings; state prices, samples, etc.

**Bricks.**—See Building Materials.

**Bridge.**—Sarasota County, Sarasota, Fla. Details under Construction News—Road and Street Construction.

**Bridge.**—Palm Beach County, West Palm Beach, Fla., will build 3 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Spartanburg County, Spartan-

burg, S. C.—Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Georgetown County Highway Comn., Georgetown, S. C.—Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Louisiana Highway Comn., Baton Rouge, La. Details under Construction News—Road and Street Construction.

**Bridge.**—City of Houston, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—State Highway Dept., Jefferson City, Mo., will build 3 bridges. Details under Construction News—Road and Street Construction.

**Bridge Approach.**—State Roads Comn.,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Baltimore, Md. Details under Construction News—Bridges, Culverts, Viaducts.

**Bristol Board, etc.**—U. S. Veterans' Bureau Supply Division, Washington, D. C.—Will receive bids December 17 for 1000 sheets of white bristol board, size  $22\frac{1}{2} \times 28\frac{1}{2}$ -in.; 1000 sheets of white cardboard, size  $22 \times 28$ -in.; 5 reams white bristol board,  $22\frac{1}{2} \times 28\frac{1}{2}$ -in., smooth finish and 2000 sheets paper for book-binding  $24 \times 36$ -in.; quotations f.o.b. point of shipment.

**Building Material.**—Florence Construction Co., Florence, S. C.—Wants prices on all building materials.

**Building Material.**—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., Bartow, Fla.—Wants building material for church.

**Building Materials.**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 to furnish building bricks and building sand, in car lots, as required during year 1925; submit samples.

**Cars (Air Dump).**—C. H. Gallrein, Mercantile Bank Bldg., Dallas, Tex.—Wants five to ten 20 yd. air dump cars in good condition; Texas delivery.

**Cars (Dock, Tram).**—General Acceptance & Finance Corp., Flat Iron Bldg., Norfolk, Va.—Wants dock tram cars.

**Cars (Dump).**—Holston Quarry Co., Inc., Strawberry Plains, Tenn.—Wants twelve 4-yd. two way side dump, 36-in. gauge cars.

**Cars (Dump).**—J. L. Neilson & Co. (Mchy. Dealers) 602 Main St., Winnipeg, Manitoba, Can.—Wants large number of used 25-yd. bottom dump, hand operated, railway cars for gravel haulage.

**Cells (Police Station)**—Dist. Comms., Room 509 Dist. Bldg., Bldg., Washington, D. C.—Received bids Dec. 18 to furnish and install additional cells at police stations Nos. 7 and 8.

**Centrifugal Pump.**—D. C. Elphinstone, Inc. (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants 16-in. centrifugal pump turbine connected.

**Cinders.**—Dist. Comms., Room 509 Dist. Bldg., Washington, D. C.—Will receive bids Dec. 22 to furnish and deliver 4000 cu. yds. cinders.

**Cold Storage Plant.**—Chamber of Commerce, P. A. Fuller, Sec., Phoebus, Va.—Wants data and prices on dry cold storage plant for vegetables, fruits, etc.; correspond with manufacturers.

**Concrete Block Machine.**—N. King, 235 Clifton Place, Brooklyn, New York.—Wants data and prices on concrete block machine.

**Crusher (Gyratory).**—Holston Quarry Co., Inc., Strawberry Plains, Tenn.—Wants one No. 6 K Allis-Chalmers gyratory crusher.

**Dishwashing Machines.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 24 for heavy-duty, dishwashing machines.

**Dock Loading Machinery, Etc.**—General Acceptance & Finance Corp., Flat Iron Bldg., Norfolk, Va.—Wants complete line of dock loading machinery and dock tram cars.

**Drugs.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 22 to furnish drugs for Hospital 55-567, Ft. Bayard, N. Mexico.

**Dryer.**—Wilson-Hock Co. (Mchy. Dealer) City Point, Va.—Wants dealer prices on steam dryer, capacity 12 ton in 24 hrs., size not to exceed  $10 \times 28$ -ft., Stokes dryer preferred; to be used on bone containing 50 per cent moisture.

**Dyeing and Cleaning Equipment.**—Stultz

**Dry-Cleaners & Dyers, Fayette St., Martinsville, Va.**—Wants prices on dye vat, drying tumbler, 36-in. extractor, large washer and additional clarifier and 1 press; would consider second-hand machinery.

**Earthwork.**—Mississippi River Comsn., 1311 International Life Bldg., St. Louis, Mo.—Will receive bids Dec. 23 to construct about 600,000 cu. yds. earthwork in Levee Dist. No. 1, Perry County.

**Elevators (Freight).**—General Acceptance & Finance Corp., Flat Iron Bldg., Norfolk, Va.—Wants two freight elevators.

**Engines (Oil).**—L. W. Goings, Pres., Century Milling and Annex Mining Co., Douthat, Okla.—Wants prices on oil engines.

**Engine (Oil).**—Lakeland Manufacturing Co., Lakeland, Fla.—Wants 100 h.p. crude oil engine.

**Excavation.**—Everglades Drainage Dist. Comms., Tallahassee, Fla.—Will receive bids Jan. 14 for excavation of approximately 660,000 cu. yds. of earth and 1,117,000 cu. yds. rock in the improvement of North New River Canal, about 30 mi.; beginning at north boundary of Broward County, extending southeasterly through said canal to its junction with New River; information with Chief Drainage Engr.

**Fertilizer Mixing Plant.**—Banks Fertilizer Co., St. Matthews, S. C.—Wants small fertilizer mixing plant for use on a farm; correspond with manufacturers.

**Flooring.**—Guyan Machine Shops, Logan, W. Va.—Wants 2000 sq. ft. of 3-in. thick tongue and groove flooring, pine preferred.

**Furniture (School) and Equipment.**—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md.—Will receive bids Dec. 24 for furniture and equipment for department of education; John H. Roche, Sec. Board of School Comms.

**Generator.**—Wilson-Hock Co. (Mchy. Dealer) City Point, Va.—Wants dealer prices on 750 kw turbo generator, 3 phase, 60 cycle, 2300 volt; General Electric preferred; condensing type with condenser and pumps.

**Generator Equipment.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids Jan. 8 to furnish Diesel engine driven generator equipment for stand-by generator stations. Blank forms and equipment (Circular 1644) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; also U. S. Engineer offices throughout the country.

**Generator Set.**—E. H. Norford & Co., Moore Bldg., Charleston, W. Va.—Wants 100 to 150 kw. motor generator set, 250 volt; used equipment preferred, good condition.

**Gravel.**—Louisiana Highway Comn., Raymond Bldg., Baton Rouge, La.—Will receive bids Dec. 22 to furnish gravel to surface shoulders on Monroe-Sicard Highway, Ouachita Parish; plans, etc., on file; Wm. B. Robert, State Highway Engr.

**Gravel.**—Louisiana Highway Comn., Raymond Bldg., Baton Rouge, La.—Will receive bids Jan. 13 to furnish gravel to surface 7.43 mi. in Morehouse Parish; 16.13 mi. in Vernon Parish, and 6.4 mi. in Winn Parish; plans, etc., on file; Wm. B. Robert, State Highway Engr.

**Gravel Loader.**—Augustus McCloskey, Bexar County Judge, San Antonio, Tex.—Will receive bids Dec. 22 to furnish one gravel loader.

**Harness Work.**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 for making and repairing harness for year 1925.

**Heating Plant.**—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., Bartow, Fla.—Wants heating plant for church.

**Hollow Drill Steels.**—Hodgson Machinery Co., Knafl Bldg., Knoxville, Tenn.—Wants data and prices on hollow drill steels for mining and quarrying work; correspond with manufacturers.

**Hospital Equipment.**—Montgomery Anti-Tuberculosis League, Fredk. Ausfeld, Treas., Montgomery, Ala.—Wants beds, tables, lamps, linens, etc., for hospital; total cost about \$4000; date of bids not set.

**Hydraulic Wheel Press.**—Guyan Machine Shops, Logan, W. Va.—Wants hydraulic wheel press about 48-in. between strain bars, capacity 250 to 300 tons; preferably arranged for motor drive.

**Implements.**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 to furnish 40 doz. Hvas brooms and 6 doz. handles for same; 6 doz. long strap bronzed forks and 2 doz. handles for same; 8 doz. Hubbard shovels, No. 5 "D"; state price per doz.

**Iron Castings.**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 to furnish iron castings as required during year 1925.

**Kitchen Supplies.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 19 for kitchen supplies.

**Lamps.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 20 for 46 center table lamps, electric, complete; Ed Miller & Co. No. L-2559 or equal.

**Lighting.**—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., Bartow, Fla.—Wants lighting for church.

**Locomotive.**—Holston Quarry Co., Inc., Strawberry Plains, Tenn.—Wants one 18-ton 36-in. gauge dinkey locomotive.

**Locomotive.**—Henry Levis & Co., Commercial Trust Bldg., Philadelphia, Pa.—Wants 11x16 or 12x18 six-wheel saddle tank 36-in. gauge locomotive, boiler good for Pennsylvania inspection.

**Millwork.**—J. W. Webb, Sec., James A. Houchin Realty Co., 226 Monroe St., Jefferson City, Mo.—Wants prices on millwork for about 20 frame and stucco dwellings.

**Mining Machinery.**—L. W. Goings, Pres., Century Milling and Annex Mining Co., Douthat, Okla.—Wants prices on mining machinery, including pumps, boilers, engines, etc.

**Mirrors (Plate Glass).**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 20 for 300 wall mirrors,  $12\frac{1}{2} \times 18\frac{1}{2}$ -in., plain plate glass, fumed oak frame, approximately  $1\frac{1}{2}$ -in. wide.

**Motor.**—Guyan Machine Shops, Logan, W. Va.—Wants 5-h. p. motor, 3-phase, 60-cycle, 200-volts, slip-ring, 600 to 1200 r.p.m.

**Motors, Etc.**—A. G. Moffat, Sec. Sewerage & Water Board, 526 Carondelet St., New Orleans, La.—Will receive bids Jan. 26, 1925, to furnish and install two 1250 h. p. and two 350 h. p. motors complete with switchboards, cables and compensators, instruments and auxiliary appliances; also six 24-in. trash pumps.

**Moulds and Forms.**—Harley F. Tumblin, 576 E. Main St., St. Laurens, S. C.—Wants moulds and forms for making cement blocks, culvert pipe, flower pots, etc.; correspond with manufacturers.

**Oil (Fuel).**—City Comsn., E. P. Owen, Jr., Sec., Jacksonville, Fla.—Will receive bids Dec. 22 to furnish through pipe line into

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



storage tanks of the city at City Electric Light plant on the St. Johns River, five 10,000-gal. cylindrical tanks and two 3000-bbl. tanks; also in storage tanks at Clark and First Sts. for City Water Works, and Municipal Docks and Terminals, in car lots as necessary to meet the requirements of these plans for period of six months.

**Oil Cloth.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids December 16 for 5000 yards white oil cloth for tables 54 in. wide; quotations f. o. b. point of shipment.

**Pajamas.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Dec. 23 for 10,000 pajamas, assorted sizes; quotations f.o.b. point of shipment.

**Pig Lead.**—See Water Works Materials.

**Pipe (Cast Iron).**—See Waterworks Materials.

**Pipe (Terra Cotta).**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 to furnish terra cotta glazed pipe as may be required during year 1925; bids considered in car lots and less; state brand.

**Pipeless Furnace.**—Guyan Machine Shops, Logan, W. Va.—Wants pipeless furnace for heating two floors of 40x100-ft. building with bituminous coal.

**Pipe Organ.**—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., Bartow, Fla.—Wants pipe organ for church.

**Press.**—Wilson-Hock Co. (Mchy. Dealer) City Point, Va.—Wants dealer prices on filter press, capacity 12 tons in 24 hours, Oliver press preferred; to be used with steam dryer.

**Plumbing.**—Treasury Dept., Supvg. Architect's Office, Washington, D. C.—Will receive bids Jan. 7 for new plumbing, etc., at U. S. Court House and Postoffice at Leavenworth, Kan.

**Plumbing Fixtures.**—J. W. Webb, Sec., James A. Houchin Realty Co., 226 Monroe St., Jefferson City, Mo.—Wants prices on plumbing fixtures for about 20 frame and stucco dwellings.

**Portland Cement.**—Dept. of Public Service, Jenkins M. Robertson, Chmn., City Hall, Charleston, W. Va.—Will receive bids Dec. 19 to furnish Portland cement as required during year 1925.

**Pumps.**—See Mining Machinery.

**Pumps.**—See Motors, etc.

**Pump (Centrifugal).**—U. S. Dept. of Agriculture, Washington, D. C.—Will receive bids Dec. 19 to furnish one centrifugal pump, approximate capacity 15,000 gal. per min., and driven by 3 phase, 60 cycle, 2200 volt synchronous motor.

**Rails.**—Mills Equipment Co. (Mchy. Dealer), Chattanooga, Tenn.—Wants 400 tons of 75 or 80-lb. first-class relaying rails; Chattanooga delivery.

**Road.**—Sarasota County, Sarasota, Fla. Details under Construction News—Road and Street Construction.

**Road.**—Palm Beach County, West Palm Beach, Fla., will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—City of Brownsville, Tenn. Details under Construction News—Road and Street Construction.

**Road.**—State Highway Dept., Jefferson City, Mo., will build 25 roads. Details under Road and Street Construction.

**Road.**—Newberry County, Newberry, S. C. Details under Construction News—Road and Street Construction.

**Road.**—Duval County, Jacksonville, Fla. Details under Construction News—Road and Street Construction.

**Road.**—Louisiana Highway Comn., Baton Rouge, La., will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—Louisiana Highway Comn., Baton Rouge, La. Details under Construction News—Road and Street Construction.

**Road.**—Noxubee County, Macon, Miss., will improve 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—Louisiana Highway Comn., Baton Rouge, La., will build 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—Fannin County, Bonham, Tex. Details under Construction News—Road and Street Construction.

**Road.**—Panola County, Carthage, Tex. Details under Construction News—Road and Street Construction.

**Road Maintenance Machinery.**—State Board of Control, S. B. Cowell, Chmn., Austin, Tex.—Will receive bids December 30 to furnish the following highway maintenance machinery: 7 portable crushing plants; 15 portable asphalt mixing plants; 110 light tractors, rubber-tired wheels; 110 one-man maintainers to use with light tractors; 50 two-horse patrol graders; 200 four-horse graders; 15 heavy rooter plows; 370 two-horse road plows; 370 two and one-half foot fresnos; 70 three-way steel road drags; 280 seven-foot, three-blade steel road drags; 2000 twelve-prong rock forks; 3000 No. 2 scoops; G. Gilchrist, State Highway Engr.; Leo Ehlinger, Maintenance Engr.

**Roofing.**—J. W. Webb, Sec., James A. Houchin Realty Co., 226 Monroe St., Jefferson City, Mo.—Wants prices on roofing for about 20 frame and stucco dwellings.

**Safety Treads, etc.**—Quartermaster Dept., U. S. M. C., Washington, D. C.—Will receive bids Dec. 22 for 168 metal safety treads in various sizes; 200 lbs. magnesite cement or equal, and 20 gals. liquid chemical for the above cement; delivery f.o.b. Naval Operating Base, Hampton Roads, Va.

**Sand.**—See Building Materials.

**School Equipment.**—Board of Education, School Dist. No. 18, Caruthersville, Mo.—Received bids Dec. 18 for interior equipment for high school building, consisting of school furniture, gymnasium, laboratory, scenery and stage, etc.; signal, telephone bell and clock system; H. H. Hohenschild Co., Archts, Buder Bldg., St. Louis.

**Seating.**—First Christian Church, F. N. Carlin, Pastor, 915 S. Orange St., Bartow, Fla.—Wants pews, chairs for church.

**Sewer Construction Materials.**—Board of Awards, F. A. Dolfield, Register, Baltimore, Md.—Will receive bids Dec. 24 to furnish and deliver 400,000 lbs. manhole, sewer inlet and similar iron castings to the Highways Engineer Dept., Bernard L. Crozier, Highways Engr.

**Sewerage and Water Works.**—City, H. G. Forester, Mayor, Lake City, Fla., will receive bids Dec. 22 for furnishing materials and labor to construct sanitary sewers, sewage disposal plant, sewage lift plant and water main; work includes furnishing all labor, material, machinery and equipment necessary to construct approximately 8 miles of sanitary sewers with appurtenances; one Cameron septic tank; one sewage lift; and approximately 4½ miles of 4-in. and 6-in.

cast iron water mains with appurtenances; Roberts and Co., Engrs., Tuft Bldg., Atlanta, Ga.

**Shovel (Steam).**—Chattahoochee Brick Co., Harry L. English, V.-P., 701 Fourth National Bank Bldg., Atlanta, Ga.—Wants one used ½-yd. steam shovel, mounted on traction wheels, or crawler type; state price loaded on car for shipment.

**Shovel (Steam).**—Henry Levis & Co., Commercial Trust Bldg., Philadelphia, Pa.—Wants three-quarter yard full crawler type steam shovel, late type, 20-ft. dipper stick or longer, high lift with boom hoist, must be first-class.

**Shovel (Steam).**—Holston Quarry Co., Inc., Strawberry Plains, Tenn.—Wants one railroad type steam shovel with 2 or 2½-yd. dipper.

**Souvenirs.**—The North Carolina Ice Cream Manufacturers Assn., Fayetteville, N. C.—Wants samples and prices on limited number of souvenirs to be used at state convention.

**Stone Cut-off Saw, Etc.**—The Quartermaster, U. S. M. C., Room 3207 Navy Bldg., Washington, D. C.—Will receive bids Dec. 19 for stone cut-off saw and equipment; delivery f.o.b. Quantico, Va., Marine Barracks.

**Street Improvement.**—Town of Lake Worth, Fla. Details under Construction News—Road and Street Construction.

**Street Improvement.**—City of Carrollton, Ky. Details under Construction News—Road and Street Construction.

**Street Paving.**—City of Palatka, Fla.—Details under Construction News—Road and Street Construction.

**Surgical Instruments.**—U. S. Veterans' Bureau, Supply Bureau, Washington, D. C.—Will receive bids Dec. 20 to furnish surgical instruments for Hospital 97-191, Chillicothe, Ohio.

**Surgical Supplies.**—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Received bids December 16 for surgical supplies for Hospital 93-94, Excelsior Springs, Mo.

**Tank (Oil).**—Wilson-Hock Co. (Mchy. Dealer) City Point, Va.—Wants dealer prices on tank for oil and gasoline storage, 8000 to 10,000 gal. capacity, Virginia delivery.

**Tape (Cotton Insulating).**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Will receive bids Dec. 23 to deliver cotton insulating tape to the Navy Yard.

**Textile Machinery.**—R. H. Pierce, Winder, Ga.—Wants machines for making hosiery, automatic; prefer used equipment; correspond with manufacturers or dealers.

**Tractor.**—Hill County, W. L. Wray, Judge, Hillsboro, Tex.—Will receive bids December 22 for one or more crawler type tractor.

**Tubes (Automobile, Inner).**—U. S. Marine Corps, Quartermaster Dept., Washington, D. C.—Will receive bids Dec. 19 for 200 automobile, inner tubes, 35x5-in.; delivery 1100 S. Broad St., Philadelphia, Pa.

**Water Mains.**—See Sewerage and water Works.

**Water Works Materials.**—City of Clinton, S. C., J. F. Jacobs, Mayor—Wants 28,500 ft. of 6-in. cast iron pipe; 4000 ft. of 4-in. cast iron pipe; forty-eight 6-in. connection double hydrants; 200 tons specials; twenty-five 6-in. valves; 12 tons of pig lead; 1500 lbs. yarn; J. H. Johnston, City Engr.

**Yarn.**—See Water Works Materials.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

# Financial News

## New Financial Corporations

Ala., Birmingham—Federal Investment Co., incorporated by N. Welch, F. D. Baker, 4106 Beech St., F. D. Rimer.

Ala., Birmingham—Newton Investment Co., chartered by W. H. Mahoney, J. P. Scott, L. J. Haley, Jefferson County Bank Bldg.

Ala., Boligee—Boligee Banking Co., capital \$25,000, chartered by W. F. Bell, R. L. Adamd, J. M. Jackson.

Ala., Fairhope—Motors Finance Corp., capital \$10,000, chartered by M. F. Northrop, J. E. Gaston, J. Melville.

Ala., Montgomery—W. E. Dodsworth, Sec.-Treas. Provident Building & Loan Assn., Whitney Bldg., New Orleans, interested in establishing branch building and loan association.

Ark., Fort Smith—Automobile Finance Corp. of Fort Smith, capital \$25,000, incorporated by Ernest Penninger, 826 S. 24th St.; Clyde Sandall, and J. K. Coleman.

Fla., Bradenton—Tri-City Loan & Investment Co., capital \$50,000, chartered with Morris Levine, Pres.; R. W. Aman, Sec.

Fla., Daytona—Peninsula Abstract & Title Guarantee Co., capital \$500,000, chartered with W. H. Courtney, Pres.; Paul F. Daniel, Secretary.

Fla., Fort Lauderdale—Fort Lauderdale Bond & Mortgage Co., capital \$100,000, chartered with Francis B. McGarry, Pres.; J. E. Osborne, Sec.

Fla., Jacksonville—Fairfield Atlantic Bank, capital \$50,000, chartered with D. D. Upchurch, Pres.; Brady S. Johnston, Cashier, 1616 Myra St.

Fla., Lake Worth—First Bank & Trust Co. of Lake Worth, plans incorporating with Geo. B. Ogle, Pres.; Earl J. Reed, Sec.-Treas.

Fla., Miami—Interstates Associates, Inc., temporary location, Halcyon Hotel, organized with Edward Robertson, Pres.; John L. Whittaker, V.-P. and Sec., Hialeah.

Fla., Miami—Baldwin Investment Co., capital \$500,000, chartered with Chas. F. Baldwin, Pres., Congress Bldg.; Albert B. Hill, Sec.-Treas.

Fla., Miami—Cherokee Investment Co., capital \$25,000, incorporated with M. J. Witman, Pres.; E. B. Kurtz, Sec.-Treas., Lawyers Bldg.

Fla., Pine Hills—Pine Hills Investment Co., capital \$1,000,000, chartered with L. W. Baldwin, Pres.; Paul Vetter, Sec.-Treas.

Ga., Savannah—Reid Finance Co., chartered with \$10,000 capital; Wilson & Rogers, Attys., 117 Bryan St.

Fla., Plant City—Clark Insurance Agency, capital \$10,000, chartered with Wm. Schneider, Pres.; J. A. Pearce, Sec.-Treas.

Fla., St. Augustine—J. A. Lew, Obe P. Goode and others interested in organizing Building & Loan Assn.

Fla., Sarasota—Sarasota Securities & Development Co., capital \$100,000, chartered with Carl S. Wise, Pres.; S. F. Floyd, Sec.

Fla., Tampa—Builders Mortgage Co., capital \$100,000, chartered with G. G. Warren, Pres., 302 Seventh Ave.; A. J. Sims, Sec. and Gen. Mgr.

Fla., Tampa—Hawkins Investment Co., capital \$50,000, chartered with M. G. Gibbons, Pres., 823 S. Delaware Ave.; Charlotte Rider, Sec.

Fla., Tampa—Tampa Realty & Mortgage Co., capital \$50,000, chartered with R. W.

Shackelford, Pres.; L. W. Carlisle, Sec.-Treas., 708 Memorial Bldg.

Ga., Macon — Georgia Peach Growers Bank plans organizing with C. B. Lewis, G. B. Clarke and Rad Turner, Directors.

Md., Baltimore—McAlpin Building & Loan Assn., Inc., 600 Equitable Bldg., capital \$500,000, chartered by Paul Berman, Joseph F. Di Domenico and Harry Greenstein.

Md., Baltimore—Reserve Building & Loan Assn., Inc., 402 W. Baltimore St., capital \$250,000, chartered by Richard B. Adams, Ida Brenner and David E. Hankin.

Md., Baltimore—American Utilities Investment Corp., chartered by E. Harry Frost, Douglas H. Rose, Leslie B. Mihm; all Calvert Bldg.

Md., Baltimore—Woodworker's Building & Loan Assn., Inc., 820 Fidelity Bldg., capital \$1,040,000, chartered by Thomas West, Chas. F. Habersack, Robert N. Baker, and others.

Mo., Centropolis Sta., Kansas City—Frank McGinley, Pres. American Asphalt Roof Corp., Kansas City, interested in organizing bank.

Mo., Kansas City—McCrae & Co., capital \$30,000, incorporated by Charles E. McCrae, 17 E. Tenth St.; D. C. Stewart.

Mo., St. Joseph—McGhee Insurance Agency Co., capital \$25,000, chartered by Albert S. McGhee, Mary W. Craig; Strop & Silverman, Attys., American National Bank Bldg.

Mo., St. Louis—Maria Investment Co., capital \$30,000, incorporated by Mary Heckman, Greenview, Ill.; Louis Schierbaum, Walter O. Heckman, 2187 Hinton Ave., St. Louis.

N. C., Durham—E. K. Powe, Jr., interested in establishing Hood System Industrial Bank of Durham, N. C., with \$100,000 capital.

N. C., Greensboro—Greensboro Mortgage Loan Co., capital \$100,000, organized with W. H. Spradlin, Jr. Pres.; A. W. Feter, Sec.-Treas.

Okl., Tulsa—Security Building & Loan Association, capital \$1,000,000, chartered by Jas. Bowen, C. H. Johnson, E. N. Holmes, 1205 S. Owasso St.

Tenn., Chattanooga—S. S. Matlock, Knoxville, interested in organizing Chattanooga Federal Employees Credit Union, with \$10,000 capital.

Tenn., Chattanooga—Chattanooga Improvement Co., Times Bldg., capital \$50,000, incorporated with Adolph S. Ochs, Pres.; Milton B. Ochs, Gen. Mgr.

Tenn., Knoxville—Commercial Bank & Trust Co., 315 Wall Ave., capital \$500,000, organized with R. L. Huff, V. P.

Tex., Bishop—Guaranty State Bank of Bishop converted into First National Bank with \$25,000 capital.

Tex., Fort Worth—Charley E. Smith & Co., capital \$35,000, incorporated by Georgia Scott Townsend, Charley E. Smith, 2218 Erwin St., and W. F. Snow.

Tex., O'Donnell—First National Bank of O'Donnell organized with \$25,000 capital; W. E. Singleton, Correspondent.

Tex., San Antonio—Guaranty Abstract & Title Co., capital \$30,000, incorporated by L. E. Crowder, S. A. Potts and Geo. R. Thomson, 225 W. Kingshighway.

Tex., Texarkana—Texarkana Finance Corp., capital \$200,000, chartered with J. M. Hudgens, Mgr.

Va., Norfolk—General Acceptance & Finance Corp. chartered with W. W. Robertson, Pres.; A. S. Gammon, Sec., 710 Redgate Ave.

Va., Richmond—Transit Finance Corp., State and City Bank Bldg., capital \$1,000,000, chartered with Oscar L. Shewmaker, Pres.; J. Vaughan Gary, Sec.

W. Va., Bluefield—Crescent Holding Co. incorporated by J. E. Nelson, J. H. Motz, J. P. Cofer, Poplar St.

W. Va., Milton—Milton National Bank organized with \$50,000 capital; Q. L. Stewart, Correspondent.

W. Va., Montgomery—Coles-Henderson Insurance Agency of Montgomery, capital \$10,000, incorporated by N. R. Coles and A. J. Henderson.

## New Securities

Ala., Fairfield—School—City voted \$144,000 bonds. Address Supt. of Schools.\*

Ala., Fairfield—School—City, G. C. Culpepper, Clk., will receive bids Jan. 6 for \$144,000, 5% bonds.\*

Ala., Mobile—Public Improvement—City, Harry T. Hartwell, Mayor, will receive bids Dec. 30 for \$106,000 5% bonds.

Ala., Montgomery—Ward, Sterne & Co., Birmingham, advises Geo. W. Ellis, State Treas., has purchased for sinking fund \$600,000 State of Alabama Highway bonds.

Ala., Selma—Street Paving—City sold \$9000 bonds to H. C. Armstrong at par; H. H. Stewart, City Clk.

Ark., Pine Bluff—Paving—City sold \$53,000, 5½% bonds to Brown, Crummer & Co. Wichita, Kan.

Fla., Boca Ratone—Electric Light Service—Town will vote Dec. 20 on bonds. Address Town Clk.

Fla., Bonifay—Sewer System, Water Mains, Fire Protection—City will vote Jan. 6 on \$40,000 bonds. Address City Clk.

Fla., Boynton—Municipal Improvement—Town, J. C. Powell, Clerk, received bids Dec. 16 for \$100,000, 6% \$1000 denom. bonds, including \$25,000 water, \$15,000 electric light system extension, \$15,000 street improvement, \$15,000 town hall, \$30,000 parks, etc.\*

Fla., Bradenton—Road and Bridge—Manatee County Commrs. will call election in Jan. on \$1,300,000 bonds; F. K. Webb, County Engr.

Fla., Clearwater—Street Improvement—City sold \$24,000, 5½%, bonds to People's Bank of Clearwater, at premium of \$991.20.\*

Fla., Clearwater—Road—Pinellas County Commrs. will call election Jan. 3 on \$625,000 Special Road and Bridge Dist. No. 11 bonds.

Fla., De Soto City—School—City, Dr. E. J. Etheredge, Mayor, will call election soon for \$40,000 bonds.

Fla., Groveland—Paving—Town, L. D. Edge, Acting Mayor, contemplates \$30,000, 6%, \$1000 denom. bond issue.\*

Fla., LaBelle—Highway and Courthouse—Hendry County Commrs., Carl E. Royer, Clk., will receive bids Dec. 29 for \$430,000 6% highway bonds and \$100,000 6% courthouse bonds.\*

Fla., Lakeland—Municipal Improvement—City, J. L. Davis, City Clk. and Auditor, will receive bids Dec. 19 for \$100,000, 6% sidewalk improvement bonds, and \$410,000, 5½% bonds, including \$300,000 hospital for white patients, \$25,000 for colored patients, \$75,000 municipal library, \$10,000 comfort station; Anton Schneider, City Mgr.

Fla., Maitland—Municipal Improvement—Town voted \$118,000 bonds, including \$35,000 paving, \$10,000 park, and \$3000 dredging and improving Lily Lake. Address Town Clerk.

Fla., Miami—Municipal Improvement—City, F. H. Wharton, Mgr., plans calling election on \$1,500,000 bonds, including \$400,000 park, \$250,000 water, \$75,000 street railway extension.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



sion, \$50,000 incinerator and garbage equipment, \$100,000 city's share of sanitary sewers, \$75,000 market, \$100,000 street widening, \$400,000 harbor and warehouses, \$50,000 hospital.

Fla., New Smyrna—School—New Smyrna School Dist. contemplates \$200,000 bond election. Address Board of Trustees.

Fla., Ocala—Hospital—City contemplates voting on \$85,000 bonds. Address City Atty.\*

Fla., Orlando—Street Paving—City defeated \$235,000 bond issue; L. B. Matthews, City Engr.\*

Fla., Plant City—Municipal Improvement—City, W. H. Durrance, Clk., will receive bids Dec. 15 for \$30,000 certificates.

Fla., St. Augustine—Bridge, Water-Works, City Comm., will call election February 10 on \$1,074,000 bonds, including \$611,000 bridge, \$415,000 water-works, and \$48,000 to retire water-works bonds.

Fla., Sarasota—Drainage—Sarasota County sold \$600,000, 5½%, \$1000 denom. Fruitville Drainage Dist. bonds to Detroit Co., Detroit, and Kaufman, Smith & Co., St. Louis.

Fla., South Jacksonville—Municipal Improvement—City, E. Jackson Butler, City Clk., advises election on \$375,000 bonds will probably be held in January or February.

Fla., Stuart—Street Improvement, Sewer, Refund—City voted \$100,000 bonds. Address City Clk.\*

Fla., Tallahassee—Drainage—Board of Commrs. of Everglades Drainage Dist. sold \$700,000 district bonds to W. L. Slayton & Co., Toledo, at \$98.63 per \$100 par value, plus accrued interest.

Fla., Tampa—Road—Hillsborough County, Palm River Section, contemplates \$160,000 bond issue. Address County Commrs.

Fla., West Palm Beach—Highways, Bridges, etc.—Palm Beach County Commrs. will call election January 15 on \$2,440,000 bonds.

Fla., West Palm Beach—School—Palm Beach County Board of Public Instruction, sold \$50,000 School Dist. No. 1 bonds to Bank of Lake Worth, Lake Worth, at premium of \$6070.\*

Ga., Atlanta—Street Improvement Indebtedness—City, B. Graham West, Comptroller, sold \$173,500, 4½% bonds to Harris Forbes & Co., New York, at \$173,300.93 and accrued interest.\*

Ga., Valdosta—Refund—Valdosta Lighting Co. requested permission Georgia Public Service Comm. to issue \$71,000 refunding mortgage bonds.

Ky., Central City—Improvement—City sold \$100,000, 5%, \$1000 denom. bonds to Well, Roth & Irving, Cincinnati, at par.

Ky., Russell—City Building—City, E. W. Smith, Clk., will receive bids this week for \$50,000 bonds.\*

Ky., Somerset—Street and Sewer Improvement—City, voted \$135,000 bonds; C. B. Cundiff, City Clk.\*

Ky., Whitesburg—Road—Letcher County Court contemplates bond election.

La., Amite—Sewer—Tangipahoa Parish sold \$65,000, 6% bonds to Amite Bank & Trust Co., of Amite, at premium of \$1410.\*

La., Baton Rouge—Road—East Baton Rouge Parish, Fifth Ward, Joe W. Tucker, Police Juror, contemplates voting on \$40,000 bonds.

La., Glenmora—Water-Works—City voted \$12,500 bonds. Address City Clk.

La., Greensburg—Road—St. Helena Parish Police Jury, W. P. Mathews, Pres., will receive bids January 6 for \$30,000, 6%, \$1000 denom. Road Dist. No. 10 bonds.

La., Lake Charles—Paving—City, J. H. Funderburg, Commr. of Finance will receive bids Dec. 20 for \$152,000, 5% bonds.\*

La., Colfax—Water-Works—City Clk. will receive bids January 6 for \$45,000 bonds.

La., Cottonfort—Water-Works—City Clk., will receive bids January 6 for \$30,000 bonds.

La., Houma—Electric Light, Water Works, Filtration—City sold \$100,000, 6% bonds to W. L. Slayton & Co., Toledo.

La., Morganza—Water Works and Light—City Clk. will receive bids January 8 for \$18,000 bonds.

La., St. Bernard—Road—St. Bernard Parish Police Jury will receive bids Dec. 22 for \$50,000 for Reggio-De La Croix Island road.

Md., Cumberland—Courthouse—Allegany County Commrs., Thomas P. Richards, Clk., will receive bids January 20 for \$50,000 4½%, \$100, \$500 and \$1000 denom. bonds.

Md., Cumberland—School—Allegany County Commrs., Thomas P. Richards, Clk., will receive bids January 13 for \$500,000, 4½%, \$100, \$500 and \$1000 denom. bonds.\*

Md., Towson—Road, School—Baltimore County Commrs., John R. Haut, Ch. Clk., will receive bids January 13 for \$500,000, 4½% \$1000 denom. school bonds and \$750,000 4½% \$1000 denom. road and school bonds.

Miss., Greenville—Levee—Board of Mississippi Levee Commrs. of Mississippi Levee Dist., Geo. F. Archer, Sec.-Treas., will receive bids Dec. 29 for \$30,000 bonds.

Miss., Meridian—Road—Lauderdale County defeated \$300,000 bond issue. Address Board of Suprvs.\*

Miss., Pascagoula—Road—Jackson County, Dist. No. 4, voted \$40,000 bonds.

Mo., Appleton City—Water Works and Distributing System—City voted \$53,000 bonds. Address City Clk.\*

Mo., Centralia—Paving—City sold \$42,000 5% bonds to Harris Trust & Savings Bank, Chicago, at 104.90.\*

Mo., Clayton (Ind. Sta. St. Louis)—Fire Engine House and Apparatus—City, Roy Atwood, Mayor, sold \$60,000 4½% bonds to Mississippi Valley Trust Co., St. Louis, at par plus premium of \$1086.

Mo., Harrisonville—School—City sold \$67,500 bonds to Wright, Snider & Co., Kansas City.

Mo., Lees Summit—Water, Sewer—City, Jno. Noel, Mayor, defeated \$61,000 water improvement, and \$64,000 sanitary sewer system bonds; Miller Fields, City Clk.\*

N. C., Cary—Water and Sewer—Town, E. C. Yates, Clk., received bids Dec. 17 for \$100,000, 6%, \$1000 denom. bonds, including \$70,000 water and \$30,000 sewer

N. C., Charlotte—County Tuberculosis Hospital—Mecklenburg County voted \$100,000 bonds. Address County Commrs.\*

N. C., Davidson—Water Works—City sold \$80,000 \$1000 denom. bonds to Drake, Jones & Co. at premium of \$1362.\*

N. C., Elizabeth City—Public Improvement—City, J. H. Snowden, City Auditor, received bids Dec. 15 for \$800,000, 6% bonds, including \$550,000 water, electric light and power, and \$250,000 sewerage.\*

N. C., Elizabeth City—Road—Pasquotank County Highway Comm., contemplates \$250,000 bond issue; J. Kenyon Wilson, representative.

N. C., Ellenboro—Electric Light and Power—City sold \$10,000 6% \$1000 denom. bonds to Durfee, Niles & Co., Toledo.\*

N. C., Goldsboro—Cemetery, Street, Sidewalk, Sewer and Water—City contemplates \$150,000 bond issue, including \$45,000 new

cemetery, \$27,000 street paving, \$14,000 sidewalks, \$40,000 sewer, and \$24,000 water. Address Mayor Bain.

N. C., Lexington—Street and Public Improvement—City sold \$25,000 street and \$100,000 public improvement bonds to Mercantile Trust Co. and L. W. Thompson & Co., both St. Louis, at premium of \$1705.\*

N. C., Roseboro—Water and Sewer—Town, E. C. Robinson, Mayor, will call election Jan. 12 on \$85,000 bonds; will receive bids Feb. 1 for \$85,000 bonds.

N. C., Wilson—Municipal Improvement—City Comm. will issue \$513,500 bonds, including \$30,000 water extension, \$60,000 electric lights, \$90,000 bridge, \$70,000 sewer extension, \$110,000 street improvement, \$65,000 sidewalk, \$50,000 sewer disposal, \$38,000 white way.

Okla., Henryetta—Park—City contemplates bond issue. Address City Clk.

Okla., McAlester—Fire Equipment—City will vote on \$85,000 5% bonds. Address City Clk.

S. C., Bennettsville—Drainage—Marlboro County, sold \$21,000 6% Crooked Creek Drainage Dist. bonds to Planters National Bank of Bennettsville at 97.50.

S. C., Dillon—Drainage, Sewer—City sold \$50,000 5½% drainage and \$15,000 5½% sewer bonds to J. H. Hilsman & Co., Atlanta.\*

S. C., Elloree—Water and Light—City sold \$65,000 6% bonds to First National Bank of Elloree.

S. C., Newberry—Street Paving—City voted \$150,000 bonds. Address City Clk.\*

Va., Lawrenceville—School—Brunswick County sold \$30,000 Totaro School Dist. bonds to Stranahan, Harris & Oatis, Toledo.

Tenn., Harriman—Municipal Improvement—City sold \$140,000 5½% bonds to Hanchett Bond Co., Chicago, at premium of \$4228.50.\*

Tenn., Harriman—Water, Street Improvement, Filtration Plant—City sold \$140,000 bonds to Hanchett Bond Co., Chicago, at premium of \$4288.50.\*

Tex., Archer City—School—City voted \$75,000 Archer City Independent School Dist. bonds. Address Pres. Board of Trustees.

Tex., Austin—Highway Maintenance Equipment—State Board of Control, will receive bids Dec. 30 for \$300,000 bonds.

Tex., Ballinger—School—City votes Dec. 18 on \$100,000 bonds. Address Pres. Board of Trustees, Ballinger Independent School Dist.\*

Tex., Beaumont—Municipal Improvement—City, Ollie J. Boyd, Mgr., will call election soon on \$650,000 bonds, including \$300,000 to elevate Southern Pacific tracks through city; \$200,000 wharves and docks; \$150,000 street improvement.

Tex., Breckenridge—Courthouse and Jail—Stephen County, E. F. Ritchey, County Judge, contemplates calling election on \$250,000 bonds.

Tex., Cameron—Street Paving—City, Judd W. Davis, Mayor, will call election in January on \$125,000 bonds.\*

Tex., Comanche—Fuel, Gas, Water Works Improvement—City, J. R. Eanes, Mayor, will call election Jan. 6 for \$50,000 fuel gas bonds and \$70,000 water works improvement bonds.

Tex., Corpus Christi—School—Geo. B. Clark, Pres. Board of Trustees Corpus Christi Independent School Dist., sold \$125,000 5½% bonds to Brown, Crummer & Co., Wichita, Kan., at par, accrued interest and premium of \$4088.\*

Tex., Crawford—School—City contemplates voting on \$40,000 bonds. Address City Clk.

Tex., Grapevine—Water Works Improve-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ment—City, E. E. Lowe, Mayor, sold \$60,000 bonds to Garrett & Co., Dallas, at par and accrued interest.\*

Tex., Houston—Municipal Improvement—City, O. F. Holcombe, Mayor, will call election in April on \$2,500,000 bonds, including \$1,000,000 bridges, \$150,000 each for roadways, \$300,000 market, and remainder for paving, sanitary and storm sewers.

Tex., Karnes City—Road—Karnes County defeated \$150,000 bond issue; O. N. Powell, County Engr.\*

Tex., Madisonville—Road—Madison County voted \$75,000 Road Dist. No. 3 bonds; T. Ferguson, County Judge.

Tex., Marlin—Road—Falls County Comms. Court, Walter S. Hunnicut, County Judge, sold \$115,000 5% Road Dist. No. 6 bonds to Brown, Crummer & Co., Wichita Falls, at 98.50.\*

Tex., Maryville—Road—Blount County will receive bids this week for \$380,000, 5%, \$1000 denom. bonds; John C. Crawford, County Judge.

Tex., Pelly, Branch Goose Creek—Sewer—City defeated \$50,000 bond issue; E. W. Neal, Mayor.\*

Tex., Pelly, Branch Goose Creek—Sewer—City will vote Dec. 29 on \$50,000 bonds; E. W. Neal, Mayor.\*

Tex., Quanah—Hardeman County contemplates \$600,000 bond issue. Address County Comms.

Tex., Snyder—Street Paving—City, Fritz R. Smith, Mayor, voted \$50,000 bonds.

Tex., Waco—Municipal Improvement—City sold to Wm. C. Breg, Dallas, \$88,000 street improvement bonds at par, accrued interest and premium of \$5074.45, and \$15,000 school bonds at par, accrued interest and premium of \$925.50; City will purchase remaining \$162,000 street and \$85,000 school bonds. Address City Mgr. McAdams.

Va., Fort Myer Heights—Jail, Office Building, Heating Plant—Arlington County Board of Supvrs., Wm. H. Duncan, Clk., plans voting on bonds.

Va., Danville—School, Street and Sewer Improvement—City, Richard P. Moss, City Auditor and Clk., will receive bids Dec. 22 for \$500,000 bonds, including \$350,000 school, \$100,000 street and \$50,000 sewer improvement.

W. Va., London—School—Cabin Creek Dist. Board of Education, J. W. Calvert, Chelyan, Pres., will soon sell \$55,000 bonds.

W. Va., Poca—School—Kanawha County Board of Education of Dist. of Poca defeated \$25,000 bond issue; J. S. Fisher, Sec.\*

## Financial Notes

Farmers & Miners National Bank of Hartford, Hartford, Ark., acquired First National Bank of Hartford; I. H. Nakdimen, Pres. of Farmers & Miners Bank.

Home Building & Loan Assn., Spartanburg, S. C., plans increasing capital to \$10,000,000.

O. A. McFall, Memphis, Tenn., opened branch office in Times Building, Chattanooga, with D. B. Prosser, Mgr.

First National Bank of Lake Worth, Lake Worth, Fla., increased capital from \$50,000 to \$100,000; A. D. Clark, Cashier.

Guinn Investment Co., John C. Guinn, about 2½ mi. south of Carthage, Mo., increased capital from \$300,000 to \$1,000,000.

Union Trust Bank, Bristol, Tenn., will merge with First National Bank; J. H. Faucette, Pres. Union Trust, and J. W. Lynn, Pres. First National.

Tampa Mutual Building & Loan Assn., W. B. Greening, Sec. and Gen. Mgr., Tampa, Fla., increased capital from \$250,000 to \$1,000,000.

Chattanooga Finance Corp., Hamilton National Bank Bldg., Chattanooga, Tenn., plans increasing capital from \$25,000 to \$500,000.

Fidelity Building & Savings & Loan Co., Newport, Ark., increased capital from \$1,500,000 to \$2,500,000.

## Trade Literature

### A Large and Fine Trade Catalogue.

E. C. Atkins & Company, Main and Butler streets, Memphis, Tenn., have issued a very fine and large catalogue of nearly 400 pages, covering their entire line of "Silver Steel" saws, saw tools, machine knives, grinding wheels, filing-room machinery, Cantol wax products and mill supplies and specialties. This catalogue, which is No. 24, is strongly bound in buckram and attractively lettered. It is arranged conveniently and will be appreciated by everyone interested in such goods as a complete reference book. The bulk of the volume from pages 5 to 347, inclusive, contains illustrations, descriptions and list prices of a wonderful assortment of saws and mill and factory supplies well adapted to the needs of the trade territory of which Memphis is the center. On pages 348 to 370, inclusive, will be found a convenient telegraphic code, a table of areas and circumferences of circles, besides many other kinds of useful information concerning weights and measures, parcel-post rates, etc., all of which will be of value around a plant some time or other. Besides carrying large stocks at the Memphis establishment the firm also has there a well-equipped shop for service to customers. The main offices and factory of E. C. Atkins & Co. are at Indianapolis, but their Memphis house has been established for almost 40 years.

### A Magazine About Explosives.

The Explosives' Engineer for November, 1924, is an exceedingly interesting periodical. Among sundry valuable and entertaining contributions there is a reproduction of an historic painting entitled "Sunday Morning at the Mine," which represents life in a California mining camp of early days. This picture, the original of which was painted by Charles C. Nahl, is in the Crocker Art Gallery at Sacramento, Calif., and is doubtless an accurate portrayal of the free and easy existence of the "Argonauts of '49," a life in which all was rough and ready, all men, no women to be seen anywhere; no aim but a scramble for gold or silver. There are many other features which will be appreciated by everyone concerned with the use of explosives whether it be for mining or for irrigation and drainage work, etc.

### Interesting Facts on Sewage Disposal

The Pacific Flush Tank Co., Singer Building, New York, has sent the MANUFACTURERS RECORD a printed copy of the minutes of this year's meeting of the New Jersey Sewage Works Association, which was held in the Statehouse at Trenton. The New Jersey Agricultural Experimental Station and the

New Jersey Department of Health jointly conduct a sub-station for experimental work on sewage disposal. A paper read by Dr. Rudolfs contained much of general interest, as did the discussion which ensued, all being reported in the minutes. Anyone interested in the work of sewage disposal can obtain extra copies of the minutes from the Pacific Flush Tank Co., manufacturers of sewage machinery, etc.

### Uses of Oxy-Acetylene Process.

Oxy-Acetylene Tips, a monthly periodical published by the Linde Air Products Co., New York City, has as a cover page illustration in its November issue a representation of how to join cast iron pipe by bronze welding. The first article in the magazine tells about how New York is clearing up some of its streets by removing some disused spurs of elevated railway, using a cutting blowpipe to sever the metal so that it may be speedily taken down.

### Calendars for 1925.

Calendars for 1925 have been received by the MANUFACTURERS RECORD as follows: Atlantic Exchange Bank & Trust Co., of Baltimore, a convenient and practical hanger calendar, a month to a page; Baltimore Commercial Bank of Baltimore, a tiny desk calendar; Lucas Brothers, Stationers, Baltimore, a long hanger calendar, a month to a leaf; Chesapeake Steamship Co., Baltimore, a large wall calendar printed in red and blue with big figures; Carborundum Company, Niagara Falls, N. Y., a panoramic view calendar showing the Falls as seen from an aeroplane, this being printed in pale green and black, with all months in a group; Swedish-American Line, large hanger calendar with colored pictures, the principal one showing a steamer under full speed; General Electric Co., a very striking and handsome calendar, three months to a page, with a large picture in colors on each page showing different uses and applications of electricity; Caughy & Co., real estate and insurance, Baltimore, a fine daily calendar, practical and handy, a leaf to be removed for each day.

## Book Review

The Story of Canned Foods. By James H. Collins, New York: E. P. Dutton & Co. Pp. 250. Cloth. \$3.50.

This is a profusely illustrated and wonderfully interesting volume. It tells in live and attractive style the whole story of preserving foods by the canning process from the time it was invented in France and practiced there in only a small way to the present day, when the first plant in France is still in operation upon a large scale, with thousands of other plants in the world, particularly in the United States. For more than twenty years the author, Mr. Collins, has contributed to technical journals and other publications, his writings including the investigation and description of many industries and trades. He has also traveled much for various periodicals of a technical nature and has visited England, France, Germany, Cuba, Porto Rico, Jamaica, Brazil, Uruguay, Argentina, Chile, Peru, Panama and Canada, besides covering the United States. His visit to the Maison Appert in Paris, the first of all canneries, led him to investigate the industry which it founded. This plant was established by Nicholas Appert more than a hundred years ago. The narrative is comprehensive and will be appreciated not only by business men and students, but by housewives, for the home canner is a feature of almost every American kitchen at some time in the year.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



## Changes In Cotton Mills Rules.

Atlanta, Ga., December 13—[Special.]—That the new Southern cotton-mill rules, recently drawn up by the joint rules committee from the Cotton Manufacturers' Associations of North Carolina, South Carolina, Georgia and Alabama and adopted by the North Carolina Association, remedy many of the defects of the old North Carolina cotton-mill rules, bring the rules up to date to apply to modern mill conditions, and will be instrumental in introducing uniform rules throughout the South once more, is the opinion of George S. Harris, president of the Exposition Cotton Mills of Atlanta and one of the leaders in the movement for revised mill rules in the South. Said he:

"The new rules have been drawn with an idea of remedying the defects in the old North Carolina mill rules and bringing Southern cotton mills back into the custom of operating under a uniform set of rules. This, if it can be accomplished, will do away with much of the present misunderstanding and confusion existing in the Southern cotton-mill industry. Most of the changes have been made to clarify the meaning of the rules and regulations. There are several important changes from the old rules, the first being the change in name, as any effort to reintroduce them under the old name to a cotton manufacturer would mean a lot of explaining.

"The second change of importance lies in the dropping of sectional classification of cotton and the adoption of the United States standard grades for cotton buying and selling. This is a radical change, but one which seemed necessary to the committee. For a century cotton has been bought and sold as coming from a particular section of the country. Some sections got a reputation for good cotton and their product was in strong demand. Others got a bad reputation, and no matter how good an individual shipment might be it was discriminated against as coming from the wrong place. The whole system was unfair, as it penalized the shippers in certain sections for no reason at all and encouraged the sale of cotton from supposedly good sections regardless of whether the cotton was good, bad or indifferent.

"The third important change lies in the tare allowance on cotton. Under the old regulations, a tare of 22 to 24 pounds to the bales was allowed, which was all right in the old days when most of the bales were of standard size. But, during the war and afterwards, many small bales began to come in to the mills, and the 24-pound tare became a very unfair proposition. With bales under weight and with cotton at 30 cents a pound, the tare allowance began to mount into real money for the mill operator, and in addition the operator never knew exactly where he stood on the tare proposition. The Southern cotton-mill rules allow a tare of 4.4 per cent on uncompressed cotton and of 4.8 per cent on compressed cotton. This puts tare upon the basis of weight, which is a fairer proposition all around.

"The fourth and, to my mind, most important change, has to do with the variation allowed the shipper in filling his contract with the manufacturer. Under the old rules the shipper was allowed a variation of 1 per cent in filling his contracts with the mill, this being based on the supposition that 100 bales would form the usual unit of shipment to cotton mills. This operated very well until the unit of shipment grew and it became no unusual thing for a cotton mill to contract for 5000 or 6000 bales at a time. Under the new rules this variation is set at 500 pounds, or one bale, instead of 1 per cent, and so restores the variation allowed the shipper to its proper balance and relieves the manufacturer of an obviously unfair practice.

"The new set of rules has been unanimously recommended by the executive committees of the Cotton Manufacturers' Associations of four states, and adopted by the association in North Carolina. There is no question that they will be ratified by the other three state associations, and their adoption will mark the biggest step forward that the Southern cotton-mill industry has taken in the past 10 years."

## Buying Farms in the South.

Atlanta, Ga., December 13—[Special.]—Sales of farm lands in the South thus far for the year 1924 have shown an increase of 220 per cent, according to figures recently compiled by the Atlanta Real Estate Board while the number of farm-land sales for the rest of the country shows an increase

for 1924 over 1923 of only 42 per cent, indicating that the number of sales in Southern territory has been four or five times greater than in any other section. The increase in the number of acres per farm sold was 7 per cent in the South, as compared with 14 per cent for all other sections.

The figures are taken here to indicate that people are beginning to wake up to the advantages offered by the South in cheap lands and wide areas, and that the large plantations are being rapidly broken up and sold in small parcels. For the past five years or more a handicap to the South has been idle land. This land is being taken up with great rapidity and occupied by farmers who can turn it to good account. Another handicap of Southern farming has been the big plantations. These are being broken up, the report indicates, into smaller parcels, which can be profitably worked as orchard, livestock and general farm units by small farmers and their families, with less dependence upon general farm labor.

## Mississippi Wants Muscle Shoals Power.

Power for the state of Mississippi from the great plant at Muscle Shoals is requested in a resolution adopted by the Mississippi Development Board, reading as follows:

"Whereas, Mississippi, being at present predominantly an agricultural state, may expect a far more prompt and direct benefit from the prospect of cheaper fertilizer, to say nothing of the industrial stimulus that will be felt as manufacturing makes its way Southward; and

"Whereas, the great natural resource should be exploited for the benefit of the majority of the people within the states to which its power can be economically distributed; therefore be it

"Resolved, That the National Government, in leasing Muscle Shoals, provide that the contract with a license must guarantee that power from Muscle Shoals shall be distributed in Mississippi and adjoining states and offered for sale; that the Federal Water Power Act be applied to the contract, and that the completion of Dam 3 be positively assured, all to the end that the industrial prosperity of Mississippi and other Southern states may be quickened to more economic and efficient development."

The officials of the board are H. S. Weston, Logtown, president; T. P. Wills, Hattiesburg, first vice-president; S. E. Moreton, Brookhaven, second vice-president; J. F. Borthwick, Hattiesburg, treasurer, and L. J. Folse, Hattiesburg, manager.

## Textile Show for Charlotte in 1926.

Charlotte, N. C.—Action has recently been taken by the board of directors of the Carolinas Exposition Company looking toward a large textile show in Charlotte in the fall of 1926 and the fall of 1928 in connection with the exposition of Carolina-made products, dates for the 1926 show being September 20 to October 2. Textile machinery manufacturers of New England and the South, as well as other interests affiliated with the textile industry, are being invited to the 1926 exposition.

It is stated that this exposition will in no sense affect the status of the Made-in-Carolinas feature, but will mean simply the holding of two big expositions jointly.

## Power Company Increases Capital Stock to \$11,000,000—To Continue Development Program.

Camden, S. C.—Authority has been given by the secretary of state to the Wateree Power Co. of this city to increase its capital stock from \$7,500,000 to \$11,000,000. This company is a subsidiary of the Southern Power Co. of Charlotte, N. C., and it is stated that the increase in capital is for a continuation of the general development program of the Wateree organization.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Office Removal.

Andrew M. Fairlee, chemical engineer, has moved his office from the seventeenth to the fifteenth floor of the Citizens & Southern Bank Building, Atlanta, Ga.

### To Establish a Southern Branch.

The Curtis & Marble Machine Co. of Worcester, Mass., will establish a branch at Greenville, S. C., for the sale of their textile machinery. A supply of parts will be carried in stock at this branch for the convenience of customers.

### Improved Electric Meter.

A three-element, three-phase meter has recently been developed by the Sangamo Electric Co., Springfield, Ill., for accurate metering on four-wire, three-phase circuits where both unbalanced voltages and currents are likely to exist. In addition to eliminating the need for three single-phase meters which would otherwise have to be used for accurate metering under these conditions, the three element meter is particularly useful where it is desired to obtain demand readings for which purpose the use of three single-phase meters is unsatisfactory. Simplicity of construction and superiority of performance are claimed for the new meter.

### Ice Making and Refrigeration.

Since their report on October 29 the York Manufacturing Co. of York, Pa., have made 122 sales and installations of their ice making and refrigerating machinery, of which 37 were in the South, including various cities and towns as follows: Gulfport, Miss.; Clinton, Mo.; Greenville, S. C.; Titusville, Fla.; Sulphur Springs, Texas; Harrisonburg, Va.; Fort Pierce, Fla.; Little Rock, Ark.; Guthrie, Okla.; Houston, Texas; Miami, Fla.; Kansas City, Mo.; Nashville, Tenn.; St. Louis, Mo.; Fort Smith, Ark.; Weatherford, Texas; Cumberland, Md.; Nixon, Texas; New Orleans, La.; Winnsboro, Texas; Butler, Mo.; Baltimore, Md.; Hildebrand, W. Va.; Louisville, Ky.; Salisbury, Md.; Kissimmee, Fla.; Pinehurst, N. C.; Troy, Ala.; Daytona, Fla.; Cameron, Texas; Sugar Creek, Mo.; Dillsboro, N. C.; St. Augustine, Fla. At two or three places two or more installations were made.

### Big Contract for Electric Equipment

The General Electric Co., Schenectady, N. Y., has received from the Illinois Central Railroad Co., a contract for about 70 per cent of the electrical equipment which will be used on cars as a result of the adoption of electric motive power in and out of Chicago, which will include 37 route miles of suburban line, over which an immense traffic is conducted daily. The company will supply control equipment on 240 motor cars and trail cars, Type PC-103 control being used, like that on other large electric railways. Each motor car, weighing 67 tons, will be equipped with four 250 horsepower direct current motors, operating two in series on 1500 volts. Trains up to ten cars can be handled by one motorman. Separate lighting motor generator sets for each car will also be supplied by the company. The motor cars with trains will be able to run as fast as 57 miles per hour. A total of \$30,000,000 is to be spent by this railroad for electrification.

### District Sales Manager Appointed.

The Osgood Company, manufacturer of excavating machinery, Marion, Ohio, has appointed C. J. Thompson as district sales manager in charge for the New York district, with offices at 50 Church street, New York city, and he is now located there. Mr. Thompson has had wide experience as to excavating machinery and contracting.

### Branch Established.

J. E. Sirrine & Company of Greenville, S. C., have opened offices in Chattanooga, Tenn., with Fred L. Bryant in charge. Through this office, in the Tennessee Electric Power Building, the firm plans to extend in northern Georgia, Alabama, Tennessee and Mississippi the same service that is rendered in the Carolinas and Virginia by their Greenville office.

### New Warehouse and Office.

Owing to greatly increased demand for its products and for close range service, the Link-Belt Company of Chicago has erected a new warehouse and office building at 5938 Lindale Ave., Detroit, Mich., to which address the Detroit branch of the company has moved from the former location on Woodward Ave. Link-Belt and H. W. Caldwell & Son Co. products will be kept in stock for quick service.

### General Sales Manager Appointed

C. W. Titgemeyer has been appointed general sales manager of the brush division of the Osborn Manufacturing Co., Cleveland, Ohio. He has been associated with the company for eighteen years and for several years has been central district sales manager. Franklin G. Smith, president, in announcing the appointment of Mr. Titgemeyer, says that his promotion is in line with the company's policy to promote within its organization.

### Has Several Southern Agencies.

The Lewis-Shepard Co., manufacturers of labor-saving handling equipment, 568 East First street, Boston, Mass., is now represented in the South as follows: North Carolina and South Carolina by Frank E. German, Box 1418, Charlotte, N. C.; Atlanta, Ga., the Material Transportation Co., 133 1/2 Central avenue; New Orleans, La., O. H. McMahon, 807 South Peters street. The handling equipment made by this company includes Jack-lift trucks, single-lift trucks, Lewis-Shepard stackers, barrel trucks and platforms.

### Another Extension Within a Year.

This year the business of the Milwaukee Corrugating Company, 36th and Burnham streets, Milwaukee, Wis., has expanded to such a degree that in spite of the addition of 50,000 square feet of floor space late in 1923, and the acquisition of a large branch plant at La Crosse, Wis. (formerly occupied by the Gund Brawling Co.), another extensive addition has now become necessary. Accordingly, work has begun on a new 100,000 square foot extension to the Milcor factories at Milwaukee and this addition, extending 200 feet back from the main plant and two stories high, will be completed within two months and will, therefore, be in operation in time to take care of the increased spring demand.

### Order for Large Turbines

The Merced Irrigation District of California has awarded a contract to the Wm. Cramp & Sons Ship & Engine Building Co., and its subsidiary, the Pelton Water Wheel Co., for two vertical I. P. Morris turbines having maximum capacity of 24,500 horsepower when operating under a head of 240 feet.

### Reorganization and Change of Interests.

In a recent reorganization of the Southern Industrial Sales Company, Asheville, N. C., the interest owned therein by T. P. Young, president, was purchased by Wm. O'Neill, Jr., general manager. The reorganization and change of interests will not affect the policies or various connections of the company in any way, now under the full ownership and management of Mr. O'Neill.

### Country Club Near Lake Okeechobee.

The Chas. Henck Company, Inc., of Miami, Fla., have announced that a deal has been closed with Harry L. McClellan, organizer of the Biscayne Bay Country Club of Miami, to erect a large country clubhouse in their grounds adjacent to the Kissimmee River and near Lake Okeechobee, fronting on State Highway No. 8. The country club, it is stated, will have a golf course of eighteen holes and it will be one of the most modern in Florida. They have also closed arrangements for a tourist hotel in the same section, adjacent to this sub-division.

### Improved Ventilating Device.

The Ventilouvre Company, Bridgeport, Conn., have designed a new horizontal "Ventilouvre," for use instead of the old-style wooden slat door, sometimes called Venetian door. This is now being manufactured in any size so that it fills completely the ordinary panel space of any type of door. It is rigidly made of No. 18 gauge cold rolled steel and is controlled by a small handle of solid brass placed near the door knob so that it can be easily operated, even by a child. By merely turning the handle the oscillating louvres may be opened or closed as desired, and when they are closed it is as if the door was solid, but when they are opened ventilation is allowed without light or visibility, also without drafts. Besides, the device is burglar proof and practically fire proof. By using a door thus equipped the use of two doors—a solid door and a slatted door—is avoided.

## Consideration Pays

When purchasing a bank directory take the same care you would in purchasing an automobile.

**ACCURACY  
RELIABILITY  
CONVENIENCE  
ECONOMY**

are the qualities guaranteed by us when you purchase the

## American Bank Reporter

Established 1836

Contains a complete report of every bank in the United States, Canada, Europe, etc.

**SEPTEMBER-OCTOBER 1924  
DESK EDITION**

now ready for distribution.  
Price \$8 per Copy.

**Steurer Publishing Co.**  
149th Street, Cor. Bergen Avenue  
NEW YORK CITY





## *Built for its job*

**T**HERE is an International Truck for every job and it is built for its job and built right. In twenty years of truck manufacture the Harvester Company has learned, not only how to build good trucks from the basic design through to final details, but how to fit them exactly for the hauling they are to do. International Trucks are made in six different capacities with wheel base and body equipment determined by the

work for which the truck is to be used. International Trucks are serving their owners faithfully in every job imaginable. Called on for the hardest kind of work, they deliver it. You can expect the same of every International and you will not be disappointed. By standing up to severest service they are living up to a reputation—a reputation earned by other products of the Harvester Company for almost a hundred years.

International Heavy-Duty Trucks are built in 3000, 4000, 6000 and 10,000 pound maximum capacities with bodies to meet every requirement. There is a Special Delivery of 1500 pounds capacity and a sturdy Speed Truck for loads up to 2000 pounds. Motor Coaches are supplied to meet every passenger transportation need. Upon request we will gladly supply you with information desired on any models, and the address of the nearest showroom where the full line is on display.

**INTERNATIONAL HARVESTER COMPANY**  
606 So. MICHIGAN AVE. OF AMERICA (INCORPORATED) CHICAGO, ILL.

# INTERNATIONAL HARVESTER TRUCKS COMPANY



# Fire and Bookkeeper's Ink

*How much insurance could you collect tomorrow?*

Every fire insurance policy states that loss will be settled on the basis of "actual cash value" at the time of the fire.

Not one business in three has anything more than bookkeeper's ink to determine and prove such a value.

Bookkeeper's ink isn't adequate.

The books of account record only investment—actual costs—in physical property.

If some of the property was bought years ago, its book value will obviously be lower

than "actual cash value."

In addition, the books generally do not show insurable assets which have been charged to expense.

Quite as important is the inaccuracy of most sets of books with regard to depreciation.

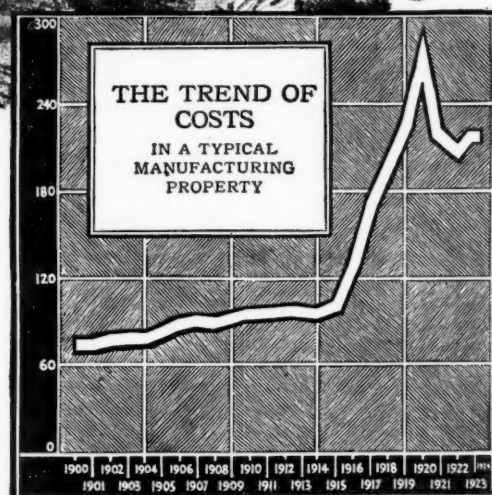
Yet actual cash value at the time of the fire means current cost of reproduction less depreciation.

Every business using continuous American Appraisal service not only knows the actual cash value of its property but can

provide acceptable proof for it.

With continuous American Appraisal service, this proof is always available—even if the owner's records of the property are completely destroyed.

For a detailed explanation of the necessity for provable current values in connection with fire insurance of the inadequacy of "book values," of the danger of estimated values, and of the advantage of continuous American Appraisal service, send for our monograph R-12, "When Insurance Insures and When It Doesn't."



## THE AMERICAN APPRAISAL COMPANY . MILWAUKEE

Healey Building ATLANTA, GEORGIA    Munsey Building BALTIMORE    Whitney Central Building NEW ORLEANS    Pierce Building ST. LOUIS  
 Atlanta, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Detroit, Indianapolis, Los Angeles, Milwaukee, Minneapolis, New Orleans, New York, Philadelphia, Pittsburgh, San Francisco, St. Louis, Seattle, Syracuse, Washington.  
 The Canadian Appraisal Company, Limited, Montreal, Toronto

INVESTIGATIONS VALUATIONS, REPORTS — INDUSTRIALS, PUBLIC UTILITIES, NATURAL RESOURCES



# An American Appraisal

THE AUTHORITY © 1924, The A. A. Co.



### Forms for your Bond, Stock and Security Issues engraved or printed

We have specialized on this work for more than 40 years, and can furnish highest credentials as to character and quality of work and absolute responsibility. Let us send samples and quote on your requirements.

**Security Bank Note Company**  
PHILADELPHIA NEW YORK  
223-5-7 Chestnut St. 20 Broad St.

### Maybe This Bank Is Different From Others

Its policy is pleasing 16,000 customers who are its friends. Address us in regard to your financial requirements.

#### BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00

Member Federal Reserve System

### IN RICHMOND VIRGINIA

The First National Bank offers complete facilities for quick collections in this territory.

### FIRST NATIONAL BANK

JOHN M. MILLER, JR.,  
President

Resources over \$30,000,000  
Capital and Surplus \$4,000,000

### HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS,  
INCLUDING CITY, COUNTY, SCHOOL,  
PAVING, ROAD AND DRAINAGE

*The Hanchett Bond Co. Inc.*

39 SOUTH LA SALLE ST., CHICAGO

### JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

Delaware Corporations  
Forms, Law and Pointers

Estimates of Cost Furnished Without Cost

### DELAWARE REGISTRATION TRUST CO.

100 West Tenth Street  
Wilmington, Del.

J. Ernest Smith, President and General Counsel.  
Chas. Warner Smith, Vice-President.  
Harry W. Davis, Secretary and Treasurer.

### MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

### We Buy Bonds

City, County, School and Road, from  
Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.  
CINCINNATI OHIO

### Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

#### A.C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.

New York Milwaukee Minneapolis Boston

### BLACK & COMPANY

(WILMER BLACK, C. P. A.)

#### CERTIFIED PUBLIC ACCOUNTANTS

OFFICES:

Suite 1208 GARRETT BUILDING - BALTIMORE, MD.  
6 HAMILTON ROW - HAGERSTOWN, MD.

### REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

#### MARX AND CO.

Brown-Marx Bldg.

Birmingham, Alabama

### WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

#### M. W. ELKINS & CO.

Southern Trust Bldg.

Little Rock, Ark.

### The Oscar T. Smith Company

Manufacturing Bank Stationers

407-9-11 E. SARATOGA STREET

BALTIMORE, MD.

OSCAR T. SMITH  
President

### Cities Find Advertising Profitable.

Comment on the recognition by "great banks and trust companies" of the value of advertising was expressed recently by J. R. Pangman of New York in a letter to the Johnson City (Tenn.) Chronicle, in the course of which he applauded Johnson City for its interest in the prospective Southern Exposition, and added:

"The second vice-president of the Guarantee & Trust Co. of New York, in an address at the convention of advertising clubs in London, pointed out that, whereas a few years ago, it was considered undignified for the great banks and trust companies to advertise and to make known the service they were willing to perform, today the largest institutions, banks, trust companies, bond houses and electric-power organizations are the greatest advertisers. And the great good that it has done cannot be measured in dollars and cents.

"In concluding his address, he pointed out the great advantage advertising has been to live cities; how through the

gathering together of facts and national publicity good cities have been made to grow. Not only by an increase of population and material wealth, but by all those worth while things which comes to those cities which attract people from many states, referring particularly to philharmonic societies, community-houses, theaters in which the best plays are attracted, to Y. M. C. A.'s, with the great courses of lectures and night schools and Y. W. C. A.'s with similar studies, and departments teaching domestic science."

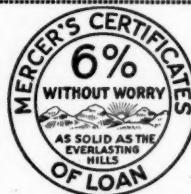
### Town of Highlands Will Provide Water Supply.

Highlands, N. C.—A new water supply will be provided for this town, which has engaged Warren H. Booker of Charlotte as engineer for the plant. Bids will be received in January for construction work and materials, the latter to consist principally of cast iron pipe, lead, valves and a 200,000-gallon steel tank.

## NEXT WEEK IS CHRISTMAS TIME!

WE WISH you many happy returns of this joyous season. The use of Galvanized Steel Structures will help make your future Christmas Seasons happier. That old reliable hot dip zinc coating process we use absolutely protects the steel, preventing rust. Can't you see the result?

**BESSEMER GALVANIZING WORKS**  
American Trust Bldg., BIRMINGHAM



### 6% FOR YOUR SAVINGS

There are securities and securities—but here is one 22 years old—absolutely safe—capital always available without loss. \$100.00 and up. References—any Bank and Trust Company in Savannah, Ga. Send for Booklet.

**G. A. MERCER COMPANY**  
Investment Bankers Savannah, GA.

### BLUE BOOK OF SOUTHERN PROGRESS

Many individuals and organizations have distributed copies of this book by the hundreds. It is crammed full of facts and figures of the South's resources and development that Business men could study with profit. Single copies 50c.

Manufacturers Record

Baltimore, Md.

## To the readers of MANUFACTURERS RECORD

TO the old friends, loyal and true, to valued new friends and to those whose "Friendship we strive to serve, do we most heartily wish unmeasured success and good fortune throughout 1925 and the many years to come.

Vice-President  
of  
**TRAYLOR**  
at  
**ALLENTOWN, PA.**



### Great Railroad Activity in Eastern Kentucky.

Whitesburg, Ky., December 14—[Special.]—The Louisville & Nashville Railroad has a campaign of improvement on along its Eastern division, and it is announced that millions of dollars will be expended within a year. Already much double tracking and additions to yards have been completed. More is to follow. Within the last few days 12 miles of double tracking have been completed between Hazard and Jackson. The Hazard yards are to be enlarged, while yards, terminals, roundhouses, etc., are planned upon property recently purchased near Whitesburg.

All these improvements are to properly handle the rapidly increasing coal traffic from the Elkhorn-Hazard coal fields. Within the past few months the coal business has taken on a new aspect in eastern Kentucky. Today there is unusual activity and the mines of both the Elkhorn and Hazard fields are loading more coal than at any time in their history. Mines are increasing production and several new fields are to be invaded for development inside of a year.

A few days ago a party of the Louisville & Nashville's engineers began location of a proposed branch line along Middle Fork River in Leslie county, which is an empire of coal and timber wealth, a county without a single railroad and yet untouched by development forces. It is said that the building of this important branch is assured. The railroad company is also planning the building of a cutoff lower down on the Middle Fork which will make a much nearer haul for coal from the two fields. For a time there were signs of a race to enter the Middle Fork region of Leslie county between the Louisville & Nashville Railroad and Henry Ford, as Ford owns large areas of undeveloped properties in the new territory, but today it seems as if Ford and the railroad company have agreed for the latter to build into the Middle Fork section, and that he will extend his road, the Detroit, Toledo & Ironton, through Pike county and then into Clay county, Kentucky, so that all his properties can be under development. If Ford starts development on his extensive areas in Leslie county, there will be greater development than ever known before in the eastern Kentucky coal fields, and new towns will spring up.

Furthermore, the Louisville & Nashville Railroad Co. will,

according to all expectations, soon let contracts for its contemplated extension to the Clinchfield Railroad that has been leased by it and the Atlantic Coast Line. This connecting link is expected to run from McRoberts to Elkhorn City, the northern terminus of the Clinchfield, and when it is completed the way will be open for conducting heavy coal traffic from the eastern Kentucky fields over the Louisville & Nashville, the Clinchfield and the Atlantic Coast Line railroads to the Southeastern states.

### Study to Improve Quality of Zinc Retorts.

A study of the properties of the refractory materials at present used by zinc smelters in the United States for the manufacture of zinc retorts has been undertaken by the Interior Department in co-operation with the Missouri School of Mines and Metallurgy. The experimental work is being performed at the Mississippi Valley Experiment Station of the Bureau of Mines at Rolla, Mo. This study is to serve as a basis for an investigation which will have as its object the improvement of the quality of zinc retorts. The samples upon which the tests are to be made are being collected in the course of visits to various plants in connection with a survey of fuels and refractories problems in zinc smelting, also being conducted by the Bureau of Mines.

### Mexican Silver for Germany.

Monterey, Mexico, December 13—[Special.]—It is shown by a report just issued by the department of mining of the Mexican Government that the metal production of the country from January 1 to August 1 was far in excess of former years, being as follows: Gold, 16,781 kilograms; silver, 1,843,853 kilograms; lead, 105,508,252 kilograms; copper, 31,143,315 kilograms, and zinc, 9,930,563 kilograms. From August to the present time the production has steadily increased. Great quantities of silver bullion are being shipped from Mexico to Europe, the exports by the Penoles Mining Company to Germany approximating \$500,000 United States money a month. These shipments will continue to be made for an indefinite period, it is announced.



## PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close December 30, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 29, 1924.—**SEALED PROPOSALS** will be opened in this office at 3 P. M., December 30, 1924, for the construction of a one-story, brick, nonfireproof postoffice building, approximately 74 by 66 feet in size, at Andalusia, Ala. After December 8, 1924, drawings and specifications may be obtained from the Custodian of the Site at Andalusia, Ala., or at this office, in the discretion of the Supervising Architect, JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 7, 1925.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 10, 1924. **SEALED PROPOSALS** will be opened in this office at 3 P. M. January 7, 1925, for new plumbing, etc., at the U. S. Courthouse, Postoffice, etc., Leavenworth, Kansas. Drawings and specifications may be obtained from the Custodian, U. S. Courthouse and Postoffice, etc., Leavenworth, Kansas, or from this office, in the discretion of the Supervising Architect, JAS. A. Wetmore, Acting Supervising Architect.

**RATE:** 35 cents per line per insertion  
**PUBLICATION DAY:** Thursday.

**FORMS CLOSE** 4 P. M., Monday.  
**DAY LETTER:** When too late to send copy by mail to reach us by 4 P. M., Monday, forward by day letter.

**THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:** Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close December 22, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 24, 1924. **SEALED PROPOSALS** will be opened in this office at 3 P. M. De-

cember 22, 1924, for extension and remodeling, including incidental changes in the mechanical equipment of the United States Postoffice, Courthouse and Custom House, Miami, Fla. Drawings and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect, JAS. A. Wetmore, Acting Supervising Architect.

Bids close January 5, 1925.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 5, 1924. **SEALED PROPOSALS** will be opened in this office at 3 P. M. January 5, 1925, for new extension and remodeling, including incidental changes in the mechanical equipment of the United States Postoffice at Anderson, S. C. Drawings and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect, JAS. A. Wetmore, Acting Supervising Architect.

Bids close January 20, 1925.

**\$50,000 4½% Court House Bonds**

Cumberland, Md.

Sealed bids will be received by the County Commissioners of Allegany County, Md., until 11 A. M., January 20, 1925, for an issue of Allegany County Bonds, known as "ALLEGANY COUNTY COURT HOUSE BOND ISSUE OF 1925" amounting to Fifty Thousand (\$50,000.00) Dollars.

Bids may be for part or all of the issue. Certified check for 5% of the amount bid must be deposited with any bid for said bonds as security for compliance with bid.

The bonds are authorized by Chapter 513 of the Acts of the General Assembly of Maryland of 1924, and bear interest at the rate of 4½% per annum, and will be issued in denominations of \$100.00, \$500.00, or \$1000.00, each, purchaser to decide, and payable Ten Thousand (\$10,000.00) Dollars on the first day of January, 1932, and a like series to the amount of Ten Thousand (\$10,000.00) Dollars on the first day of January in each and every year thereafter until all of said bonds of said issue shall be redeemed, the last payment falling due and payable on the first day of January, 1936.

Interest, payable semi-annually, represented by interest coupons attached to said bonds. Bonds are exempt from municipal and County taxation in Allegany County, Maryland.

**FINANCIAL STATEMENT OF  
ALLEGANY COUNTY**

Assessable basis ..... \$83,777,244.31  
Bonded indebtedness (not  
including this issue) ..... 1,940,000.00  
No floating debt.

Address all bids to the County Commissioners of Allegany County, Cumberland, care of Thomas P. Richards, Clerk, marked "BIDS FOR BONDS." Further information can be obtained from the clerk.

By order of the County Commissioners of Allegany County, Md.

HENRY A. BACHMAN, Pres.

Attest: THOMAS P. RICHARDS,  
Clerk.

Bids close January 13, 1925.

**\$500,000 4¼% School Bonds**

Cumberland, Md.

Sealed bids will be received by the County Commissioners of Allegany County, Maryland, at their office in the Court House, Cumberland, Md., until 11:00 A. M., January 13, 1925, for an issue of Allegany County Bonds, known as "ALLEGANY COUNTY SCHOOL BOND ISSUE OF 1923" amounting to Five Hundred Thousand (\$500,000.00) Dollars.

Bids may be for part or all of the issue. Certified check for 5% of the amount bid must be deposited with any bid for said bonds as security for compliance with bid.

The bonds are authorized by Chapter 234 of the Acts of the General Assembly of Maryland of 1922 and bear interest at the rate of 4¼% per annum and will be issued in denominations of \$100.00, \$500.00, or \$1000.00 each, purchaser to decide and payable Fifty Thousand (\$50,000.00) Dollars on the first day of July, 1937, and a like series to the amount of Fifty Thousand (\$50,000.00) Dollars, on the first day of July in each and every alternate year thereafter until all of said bonds of said issue have been redeemed.

Interest, payable semi-annually, represented by interest coupons attached to said bonds. Bonds are exempt from municipal and County taxation in Allegany County, Maryland.

**FINANCIAL STATEMENT OF  
ALLEGANY COUNTY**

Assessable basis ..... \$83,777,244.31  
Bonded indebtedness (not  
including this issue) ..... 1,440,000.00  
No floating debt.

Address all bids to the County Commissioners of Allegany County, Cumberland, care of Thomas P. Richards, clerk, marked "BIDS FOR BONDS." Further information can be obtained from the clerk.

By order of the County Commissioners of Allegany County, Md.

HENRY A. BACHMAN,  
President.

Attest: THOMAS P. RICHARDS, Clerk.

Bids close December 27, 1924.

**Highway and Bridge Construction**

OFFICE OF COUNTY COMMISSIONERS.

Sarasota, Florida, Dec. 8, 1924.

Sealed proposals for the construction, and the furnishing of labor, materials and equipment to improve or construct 31.5 miles of highway divided into seven projects: 1 steel draw span and approaches, and 1 30-foot span concrete bridge in Sarasota County, Florida, will be received at the Office of the County Commissioners until 10 o'clock A. M. on the 27th day of December, 1924, and publicly opened.

Plans and specification, blank forms for bids, contracts and bonds, and all other needed information are to be had from the County Engineer, Sarasota, Florida, on the payment of five dollars a set.

The right is reserved to reject any or all bids.

M. L. TOWNSEND, Chairman  
Board of County Commissioners.

Bids close December 30, 1924.

**Bridge**

SOUTH CAROLINA STATE HIGHWAY

DEPARTMENT.  
F. A. PROJECT No. 241, GEORGETOWN-  
HORRY COUNTIES.

Georgetown, S. C.

Bids will be received until 12 o'clock noon Tuesday, December 30, 1924, at the office of the Georgetown County Highway Commission at Georgetown, S. C., for the construction of the Yauhannah Ferry Bridge over Great Pee Dee River on State Route No. 40, between Georgetown and Horry Counties.

The work to be done consists of the construction of an 8442-foot reinforced concrete, steel and creosoted timber bridge.

APPROXIMATE QUANTITIES:

Contract No. 1 (Creosoted Timber Trestle):

40 acres clearing only.

58,000 lin. ft. treated piles.

1,500 M. B. M. treated lumber.

119,000 lbs. hardware.

Contract No. 2 (Concrete Substructure):

105 cu. yds. dry excavation.

830 cu. yds. wet excavation.

4,830 lin. ft. untreated piling.

431.8 cu. yds. Class "A" concrete

(Seal).

560.3 cu. yds. Class "A" concrete.

9,386 lbs. reinforcing steel.

Contract No. 3 (Steel Superstructure):

635,000 lbs. structural steel.

202.2 cu. yds. Class "A" concrete.

40,194 lbs. reinforcing steel.

Contract No. 4 (Bituminous Surfacing, entire bridge):

16,870 sq. yds. rock asphalt paving.

Separate bids will be received on all contracts. Proposals for contract No. 1 must be accompanied by a certified check for Four Thousand Six Hundred Dollars (\$4600), contract No. 2 One Thousand One Hundred Dollars (\$1100), contract No. 3 One Thousand Three Hundred Dollars (\$1300), contract No. 4 Seven Hundred Dollars (\$700). Bid bonds will not be accepted. All proposal guarantees are to be made payable to the Chairman of the State Highway Commission of South Carolina.

Plans, specifications and proposal forms are on file at the offices of the State Highway Engineer, 1626 Main street, Columbia, S. C. Plans will be furnished upon request, accompanied by a check for \$5.00, and no refunds will be made for plans returned.

Bids close December 19, 1924.

**Bridge Construction**

Wilson, N. C.

Sealed bids will be received by the Mayor and Board of Commissioners of the Town of Wilson, N. C., for the above work until 10 A. M. December 19, 1924, when they will be opened and publicly read.

The work will consist of the construction of the abutments for 5 reinforced concrete bridges and the construction of the concrete deck girder floor slabs for 2 bridges, of 35-foot span and 50 feet in width.

Proposals must be made upon blank forms furnished by the Engineer, and must be sealed and properly addressed to the City Clerk of the Town of Wilson.

Each bid must be accompanied by a certified check or bidder's bond in the amount of five (5) per cent of the amount bid as evidence of good faith on the part of the bidder.

Plans, specifications, contract forms, etc., may be obtained from the Engineer upon the deposit of ten (10) dollars, which will be returned to bona fide bidders.

Plans and specifications will be ready for the mails on or about December 6.

The right is reserved to reject any or all bids or to accept any which may seem to be in the best interests of the town.

SILAS R. LUCAS, Mayor.

THEO. A. HINNANT, Clerk.

R. D. GLADDING, Consulting Engineer,  
Wilson, N. C.

Bids close December 23, 1924.

**Highway Construction**

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

Sealed proposals for building one section of State Highway, as follows:

Montgomery County. Cont. M-49. Approaches to the under-grade crossing at Silver Spring, in Montgomery County. will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 23rd day of December, 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 6th day of December, 1924.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close January 5, 1925.

**Street Improvements**

Lake Worth, Fla.

Sealed bids will be received up to 7:30 P. M. January 5, 1925, at the office of the Town Clerk, City Hall, Lake Worth, Fla., for clearing, grading, paving with rock and oiling streets and avenues, in and for the Town of Lake Worth, according to specifications on file in the office of the Town Clerk.

Specifications will be sent to any address upon request made to the Town Clerk, Lake Worth, Fla., accompanied by a remittance of Five Dollars, said Five Dollars to be refunded upon return of the specifications in good order.

By order of the Town Commissioners,  
JNO. L. BOSLEY,  
Town Clerk.

Bids close January 3, 1925.

**Street Paving**

Sealed proposals on blank forms furnished by the City of Palatka, addressed to Chowning Cauthorn, City Clerk, Palatka, Florida, will be received until 7:30 P. M. January 3, 1925, at Palatka, Florida, for furnishing all materials, equipment and labor necessary for the doing of the following work:

Approximately 50,000 square yards of street paving, together with all necessary drainage, curb and gutter and other work incidental thereto, as set forth in the plans and specifications. Plans and specifications can be seen at the office of the City Clerk in the City of Palatka, Florida. Full sets of plans and specifications will be furnished by the City Clerk upon the payment of Ten (\$10) Dollars.

Each bid must be accompanied by a certified check in the sum of Five Thousand Dollars, payable to R. C. Howell, City Treasurer.

The right is reserved to reject any and all bids.

CHOWNING CAUTHORN,  
City Clerk of the City of Palatka, Florida.  
Dated December 3, 1924.



Bids close January 8, 1925.

### Sanitary Sewers

Fort Pierce, Fla.

Sealed bids will be received by the City Commission of Fort Pierce, Florida, at their office at or before 7.30 P. M. January 8, 1925, for furnishing the necessary labor, material and equipment for the construction of sanitary sewers in certain streets in Fort Pierce, Florida.

Should the amount bid exceed the appropriation, the City Commission reserves the right to make such changes in the quantities as are necessary to meet with the funds appropriated.

The approximate quantities of the proposed work are as follows:

6-inch house connections, 51,000 linear feet.

8-inch sewer 4 to 10 feet depth, 58,460 linear feet.

10-inch sewer 4 to 10 feet depth, 2100 linear feet.

12-inch sewer 4 to 10 feet depth, 1350 linear feet.

15-inch sewer 4 to 10 feet depth, 1900 linear feet.

21-inch sewer 4 to 8 feet depth, 1800 linear feet.

176 manholes.

176 castings.

Proposals to be presented in a sealed envelope, endorsed on the outside "Bid for Construction of Sanitary Sewers," Fort Pierce, Florida, and the name of the bidder or bidders.

Each proposal must be accompanied by a certified check made payable to the order of the City Commission of Fort Pierce, Florida, for 3 per cent of the amount of his or their bid.

The successful bidder will be required to give a bond equal to 50 per cent of his or their bid, such bond to be executed by a surety company licensed to do business in the State of Florida, said bond to be approved by the City Commission.

Plans and specifications may be seen at the office of the City Manager, or at the office of Miller Hallows, Engineer, after December 19, 1924. Specifications may be obtained at either office on deposit of \$2.50, fifteen dollars of which will be returned if a bid is made.

The City Commission reserves the right to reject any, or all bids, or to accept any bid they deem to be for the best interest of the city.

C. J. RYAN,  
City Manager.

Bids close December 24, 1924.

### Sewer

DEPARTMENT OF PUBLIC IMPROVEMENTS.  
SUB-DEPARTMENT OF HIGHWAYS  
ENGINEER.

Baltimore, Md., December 10, 1924.

Sealed bids or proposals, in duplicate, addressed to the Board of Awards in care of the City Register, for furnishing and delivering Four Hundred Thousand (400,000) pounds of manhole, sewer inlet and similar iron castings, to the Highways Engineer Department, in accordance with the specifications on file in the office of the Highways Engineer, City Hall, Baltimore, Md., and embraced in Material Contract No. 52, will be received at the office of the City Register, City Hall, Baltimore, Md., until Wednesday, December 24, 1924, at 11 o'clock A. M., at which time they will be publicly opened by the Board of Awards and read.

Certified check of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council, in the amount recited in paragraph 4 of the specifications, must accompany each bid.

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any of all bids.

Specifications and bidding form may be obtained at the office of the Highways Engineer, Room 10, City Hall, Baltimore, Md., upon application.

BERNARD L. CROZIER,  
Highways Engineer.  
STUART PURCELL,  
Chief Engineer.

Approved:

HOWARD W. JACKSON,  
President Board of Awards.  
GEORGE E. KIEFFNER,  
Assistant City Solicitor.

Bids close January 8, 1925.

### Sewers

Fort Pierce, Fla.

Sealed bids will be received by the City Commission of Fort Pierce, Florida, at or before 7.30 P. M. January 8, 1925, for furnishing the necessary labor, material and equipment for the construction of Drains in certain streets in Fort Pierce, Florida.

Should the amount bid exceed the appropriation, the City Commission reserves the right to make such changes in the quantities as are necessary to meet the funds appropriated.

The approximate quantities of the proposed work are as follows:

10-inch inlet pipe, 5300 linear feet.

10-inch drain 4 to 8 feet depth, 8150 linear feet.

12-inch drain 4 to 8 feet depth, 22,750 linear feet.

15-inch drain 4 to 8 feet depth, 5250 linear feet.

18-inch drain 4 to 8 feet depth, 2390 linear feet.

21-inch drain 4 to 8 feet depth, 2130 linear feet.

24-inch drain 4 to 8 feet depth, 2825 linear feet.

27-inch drain 4 to 8 feet depth, 1200 linear feet.

30-inch drain 4 to 8 feet depth, 1050 linear feet.

33-inch drain 4 to 8 feet depth, 350 linear feet.

36-inch drain 4 to 8 feet depth, 1625 linear feet.

42-inch drain 4 to 10 feet depth, 1675 linear feet.

45-inch drain 4 to 10 feet depth, 350 linear feet.

48-inch drain 4 to 10 feet depth, 200 linear feet.

51-inch drain 4 to 10 feet depth, 550 linear feet.

54-inch drain 4 to 10 feet depth, 600 linear feet.

60-inch drain 4 to 8 feet depth, 360 linear feet.

174 manholes.

174 castings.

312 inlets.

312 castings.

Proposals to be presented in a sealed envelope, endorsed on the outside "Bid for Construction of Drains," Fort Pierce, Florida, and the name of the bidder or bidders.

Each proposal must be accompanied by a certified check made payable to the order of the City Commission of Fort Pierce, Florida, for 3 per cent of the amount bid.

The successful bidder will be required to give bond equal to 50 per cent of his or their bid, such bond to be executed by a surety company licensed to do business in the State of Florida, said bond to be approved by the City Commission.

Plans and specifications may be seen at the office of the City Manager, or at the office of Miller Hallows, Engineer, after December 19, 1924. Specifications may be obtained at either office on deposit of \$25.00, ten dollars (\$10.00) of which will be returned if a bid is made.

The City Commission reserves the right to reject any, or all bids, or to accept any bid they deem to be for the best interest of the city.

C. J. RYAN,  
City Manager.

Bids close December 22, 1924.

### Sewerage and Water Works

Sealed proposals will be received by the City Commissioners of Lake City, Florida, at the City Hall, for furnishing materials and labor to construct sanitary sewers, sewage disposal plant, sewage lift plant and water mains in and for the City of Lake City, Florida, until 2.00 o'clock P. M., December 22, 1924.

The work includes the furnishing of all labor, material, machinery and equipment of every kind, necessary to construct approximately 8 miles of sanitary sewers with appurtenances, one Cameron septic tank, one sewage lift, and approximately 4½ miles of 4-inch and 6-inch cast iron water mains with appurtenances, all complete in place and in accordance with the plans and specifications on file in the office of the City Clerk and the Engineers.

Each bid must be accompanied with a certified check or a bidder's bond for five (5) per cent of the amount of bid, drawn to the order of the City of Lake City, Florida.

All bids will be compared on the basis of the Engineers' estimate of the work to be done.

Copies of the plans and specifications may be seen at the office of the City Clerk or the Engineers. Complete sets of plans and specifications will be furnished to prospective bidders for the following prices, which will not be returned:

Sanitary Sewers and Septic Tank.. \$15.00

Water Extension ..... 10.00

The right is reserved to reject any or all bids and the contract may be awarded as a whole or in part, to one or more bidders, as considered to the best interest of the City.

CITY OF LAKE CITY, FLORIDA,

CITY COMMISSIONERS:

H. G. FORESTER, Mayor.

R. T. BOOZER.

F. A. McCOLSKY.

City Clerk: E. A. WRIGHT.

Engineers:

ROBERT AND COMPANY, INC.,

Atlanta, Georgia.

Bids close December 23, 1924.

### City Hall, Fire Station And Jail

Fort Pierce, Fla.

Notice is hereby given that sealed bids will be received by the City Commission of the City of Fort Pierce, Florida, up to 7 o'clock P. M. December 23, 1924, for the construction of a city hall, fire station and jail according to plans and specifications therefor, prepared by W. W. Hatcher, architect, and now on file in the office of the City Manager.

Each bid must be accompanied by a certified check for 5 per cent of the amount of the bid, payable to the order of the City Commission.

A copy of the plans and specifications may be obtained at the office of the City Manager upon the payment of \$25.00, which will be refunded if said plans and specifications are returned within 30 days after the bid is let.

Address all bids to the undersigned.

C. F. GREENE,  
City Clerk.

### Copper Roofing

WANTED—Bids on 110 squares of copper roofing lately removed from Courthouse. To be taken on grounds. Sample on request.

D. M. BLANDING, Clerk,  
Sumter, S. C.

Bids close January 15, 1925.

### Fire Apparatus

Sealed bids will be received by the City Council of the City of Fayetteville, Arkansas, at the Mayor's office until January 15, 1925, 2 P. M., for one triple-combination chemical, hose and pump motor-driven fire truck with pump capacity of 500, 600 and 750 G.P.M.

Any purchase to be subject to final approval of the City of Fayetteville, Arkansas, and the Arkansas Fire Prevention Bureau.

The right to reject any or all bids is reserved.

CITY OF FAYETTEVILLE, ARKANSAS.

By ALLEN M. WILSON, Mayor.  
J. C. MASSIE, Clerk.

Bids close January 14, 1925.

### Excavation

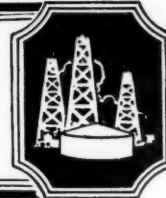
Tallahassee, Fla.

Board of Commissioners of Everglades Drainage District will receive sealed bids at 11 o'clock A. M. January 14, 1925, for excavation of approximately 660,000 cubic yards of earth and 1,117,000 cubic yards of rock in the improvement of North New River Canal, beginning at or near the North boundary of Broward County, Florida, and extending Southeasterly through said Canal to its junction with New River, a distance of approximately 30 miles. Information in reference to the above can be obtained from the Chief Drainage Engineer, Tallahassee, Florida. Bids must be accompanied by certified check in the sum of 1% of amount bid. Checks of unsuccessful bidders will be returned. Check of successful bidder, if awarded contract, will be retained pending execution of contract and filing of bond. Board reserves right to reject any or all bids.

(Signed) BOARD OF COMMISSIONERS OF  
EVERGLADES DRAINAGE DISTRICT.



# CLASSIFIED OPPORTUNITIES



## MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

### NORTHWEST GEORGIA.

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites: pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Georgia.

### MINERAL AND TIMBER PROPERTIES WANTED WANTED.

TO HEAR from parties having mineral properties for sale.

UNITED MINERALS CO., Roanoke, Va.

### GRANITE DEPOSIT

FOR LEASE OR SALE—Terms attractive; the whole, or sections, of one of the foremost developed granite deposits in the Southeast. Address Granite, 517 Grant Building, Atlanta, Ga.

### LEAD ORE

LEAD ORE FOR SALE, 85% pure; will deliver f. o. b. smelter in carlots. Address No. 6400, care Manufacturers Record, Baltimore, Md.

### TRIPOLI DEPOSIT

TRIPOLI—500 ACRE deposit of this valuable earth for sale; near railroad in Central West. Deposit close to surface. Price favorable. Page, 16 State St., Rochester, N.Y.

### COAL LANDS AND MINES

FOR SALE—Solid seam of strip coal, 4 to 6 feet. No. 5, good quality, near the proposed Elmore, Ind.-Owensboro, Ky., railroad. Write for blue-print to J. R. Wasson, Oakland City, Ind.

### COAL AND TIMBER LAND

FOR SALE—231 ACRES undeveloped coal property, located in Dickenson and Wise Counties, Virginia, carrying Clintwood, Glamorgan and Bolling seams. Address owner, R. L. Buchanan, Darwin, Va.

### BARGAIN IN COAL AND TIMBER LANDS.

Mining engineer's report shows ninety million tons Sewanee coal and fifty-nine million feet hardwood timber, 20,000 acres in fee, South Central Tennessee, within one mile of R. R.; for quick sale, \$15 per acre. Terms. Address No. 6399, care of Manufacturers Record, Baltimore, Md.

### TIMBER AND TIMBER LAND

10,000 to 200,000 ACRES very finest virgin timber lands. Yellow pine, mahogany and other fine hardwood. Nothing better. Price \$5.00 an acre in fee. Terms.

A. J. NOBLETT, Atmore, Ala.

### TIMBER FOR SALE

65 MILLION FEET Rosemary Pine Stumpage in Mississippi. \$5.00 per thousand. JOE B. UNDERBERG CO.

400 Empire Bldg., Memphis, Tennessee.

### FARM AND TIMBER LAND

13,000 ACRES on railroad 30 miles from Jacksonville. Solid body, some timber. Absolute perfect title. \$6 per acre. Write William Nussbaum, Jacksonville, Fla.

## FARM, FRUIT AND TRUCK LANDS

### FLORIDA

#### EVERGLADES LANDS.

5000 acres on and adjacent to Hillsboro Canal. Ten miles west of Deerfield and F. E. C. Railway. Elevation 14 feet; depth of muck 8 feet. Price thirty dollars an acre. Liberal terms.

Owner, W. W. DEWHURST, St. Augustine, Florida.

## RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

## FARM, FRUIT AND TRUCK LANDS

### FLORIDA

FLORIDA INVESTMENTS — Acreage tracts, timber tracts, subdivisions and hotel sites, any section in Florida. Some bargains with quick turnovers and large profits on small investments assured; 25 years' experience. ASK ANYBODY. N. D. SUTTLES & COMPANY, Jacksonville and West Palm Beach, Fla.

WE OWN 12,000 ACRES of Everglade Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock surfaced roads and navigable canals already constructed. This tract fronts on the Cross State Highway. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY, 223 Clematis Ave., West Palm Beach, Fla.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the war," Tampa, Fla.

### SMALL FARMS

#### in the

#### "GREAT WINTER GARDENS."

SMALL farms in five, ten and twenty-five-acre tracts, ready for immediate cultivation; high and dry, but suitable moisture for citrus fruit culture and winter vegetables. Sold on easy payment plan. Investigate today. Literature furnished on Okeechobee opportunities, the next boom city of Florida, backed up with rich opportunities.

CHARLES L. HENCK COMPANY, 70 N. E. Second St., Miami, Fla.

### GEORGIA

GEORGIA. BRYAN COUNTY—For Sale, A Farm and Game Preserve; acres, 2850. Beautiful waterfront; just the place for a quiet winter home. Old Fort McAllister is here. Fine for truck and general farming. Good fishing, including shad fishing and oyster grounds. Satsuma oranges, pecans, peaches, pears, plums and figs do well. Five flowing wells on the place. Write for price and particulars.

## BUSINESS OPPORTUNITIES

20,000 COMPANIES need new steel casting device successfully proven out. Patent for sale. J. B. Shurman, inventor, 1517 16th St., N. E., Canton, Ohio.

## BUSINESS OPPORTUNITIES

WE ARE IN THE MARKET for a clean-cut proposition that requires proper financing to make it a success. Must stand investigation. Mulholland, 79 Wall Street, New York City, N. Y.

CAPITAL WANTED—To develop town-site; on 640 acres that two railroads and state highway cross on in S. E. Oklahoma, surrounded by coal, oil, gas and farming. Write J. E. Cavanagh, McAlester, Okla.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW, Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

GOLDEN OPPORTUNITY to open plant where conditions are favorable and labor plentiful. Three floors, seven thousand feet each, to let in modern, fireproof, daylight building, located in wholesale district. Excellent for garment manufacturing or distributing purposes.

BOWMAN-MOORE HAT COMPANY, Knoxville, Tennessee.

WANTED—Farmers who want to locate where good churches, schools, climate, roads, hunting and fishing are of the very best. Rich, undeveloped land, low in price; good markets where buyers pay cash for every item raised. Columbus and Brunswick Counties is the place. Address Farmer, P. O. Box 45, Vineland, N. C.

YOUNG MAN with successful record, experienced in the Manufacture and Wholesale of Yellow Pine Lumber, wishes to borrow \$3000.00 to invest in well established wholesale business which has shown handsome profits since organization. Will furnish high class references and good security. Southern Location. Address No. 6401, care of Manufacturers Record.

### SMOKELESS COAL.

Party having about five hundred-acre lease No. 3 Pocahontas coal, four feet thick, desires someone to furnish capital for development. Favorable royalty rates. This is a splendid opportunity for someone with idle money to get an interest in a nice small Smokeless operation that will yield good returns. This is also an excellent opportunity for some large mill or manufacturing establishment to secure a mine connection that will give them a continuous supply of high-grade coal. Address No. 6396, care Manufacturers Record, Baltimore.

### OIL LEASED PROPERTIES TO BE DEVELOPED IN TENNESSEE.

Half interest in 10,000 acres offered to parties who will drill or finance the drilling of a test well to the depth of 3000 feet. These properties are located in East Tennessee North of Knoxville. They are also located a few miles South of the Cumberland Mountain Ranges, where the large coal developments are situated. Geologists have pronounced this to be excellent structural conditions for the production of both Oil and Gas. We are confident that we will open a wonderful Oil producing territory; however, it will be a wild cat proposition. Past records show that wild cat operations in some cases prove to be some of the biggest Oil producing developments, and the chances are our location will prove that it is in this case. Every indication from the latest Government Oil & Gas Map shows that we are located in the oil belt of the great Eastern and Western producing fields. We are so positive that we are right in the heart of a big oil pool is the reason for the necessary time and expense to secure the leases on these lands. We are anxious to connect up with parties who will assist in the financing of the test well on these properties. For further information, address R. H. WHITTLE, Knoxville, Tenn.



# New York will never go dry

THE water supply system for Greater New York was designed with the thoughts of reserve supply and safety foremost. Up in the Catskills, near the source of this water supply, is the Ashokan reservoir. This is ample for New York in the far distant future. A few miles away is the Kensico reservoir, built for safety. On the outskirts of the city there is a third reservoir, and on Staten Island a fourth.

Linde's national system of 115 plants and warehouses is like the New York water system. The reserve facilities of any or all of these plants and warehouses can be directed toward the single plant or warehouse that is your source for oxygen.

## THE LINDE AIR PRODUCTS COMPANY

General Offices: Carbide & Carbon Bldg.  
30 East 42d Street, New York  
38 PLANTS—77 WAREHOUSES

### Step by Step

The Linde Company has recently issued two new books: "*Step by Step in Gas Welding a Crank Case*" and "*Step by Step in Gas Welding a Cylinder Block*." Like all Linde books, they are written from practical experience and to fill a definite need.



One welder says that these books will enable him "to perform welding operations he was previously refusing." Another says they contain "information of high value," and a third adds, "... something I have been looking for."



Many welders have fallen just short of success on the operations described, step by step, by word and by picture, in these two books. That is why Linde has written and published them.



All Linde books are issued as a part of Linde Service. Ask the nearest Linde District Sales Office to tell you about all the Linde books.



# LINDE OXYGEN

YOU CAN DEPEND ON THE LINDE COMPANY



*Friends:*

For the thirtieth time  
we say "GREETINGS"

Our friendship and  
service is offered  
to you in the sincere  
spirit of helpfulness

Accept our Best Wishes  
for Peace, Good Will  
and Prosperity . . .

*Christmas 1924*

**Central Coal & Coke Company**

GENERAL OFFICES  
KANSAS CITY, MO.





